MERIDIAN

BULK SEED TENDER

OPERATOR'S MANUAL

SEED EXPRESS

FOR OWNERS AND OPERATORS OF THE 242RT

PRODUCT WARRANTY
REGISTRATION FORM

MERIDIAN MANUFACTURING GROUP

WARRANTY REGISTRATION

This form must be filled out by the dealer and signed by both the dealer and the customer at the time of delivery. Please mail or fax the completed form for validation of the equipment registration.

Customer's Name_____

Address _____

City, State, Postal Code_____, _____, _____

Phone Number (_____) _____- _____

PRODUCT INFORMATION

Tender Model #_____ **Serial Number #**_____

DEALER INSPECTION REPORT

____Tender frame secured to trailer
____Check fuel level and gas shut-off
____Check crankcase oil level
____Start Honda eEngine
____Brake and lighting harness connection
____Remote throttle control functions
____Conveyor platform pivots correctly
____Lubricate unit where necessary
____Check air pressure in tires
____Electric brakes in working condition
____All guards/shields installed correctly
____All safety signs installed and intact
____Reflectors and lights clean and working
____Review safety and operating instructions
____Inspect customer's hitch for 2-5/16" ball/gooseneck hitch
____Verify receipt of all options ordered

I have thoroughly instructed the buyer on the above-described equipment, including review of the Operator's Manual content, equipment care, adjustments, operational use, safety procedures, and applicable warranty policy.

Dealer/Company Name_____

City, State, Postal Code _____, _____, _____

Dealer's Signature_____**Date** ____/____/_____

The above equipment and Operator's Manual have been received by me, and I have been thoroughly instructed as to care, adjustments, safe operation, and applicable warranty policy.

Owner's Signature_____ **Date** ____/____/_____

2902 Expansion Blvd. Storm Lake, Iowa 50588 Phone: 800-437-2334 Fax: 712-732-1028 Email: iowa_warranty@meridianmfg.com

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2902 Expansion Blvd.
Storm Lake, IA 50588
Phone: 712-732-1780
Fax: 712-732-1028

CERTIFICATE OF ORIGIN

LICENSING INFORMATION

Date: ____/___/_____

DEALER:

_____Business
_____Contact
_____Address
_____City, State, Zip

SOLD TO:

_____Business
_____Contact
_____Address
_____City, State, Zip

TENDER MODEL # _____

TENDER WEIGHT _____

TENDER SERIAL # _____

TRAILER MODEL # _____

TRAILER SERIAL* # _____

TRAILER WEIGHT _____ _____

(*Only one serial number is issued for a complete tender package which will include the trailer. The trailer in these complete packages does not receive a separate serial number.)

Tender 110 BST Wagon	80110	1,004#
Tender 110 BST-T (trailer included)	80111	1,830#
Tender 220 BST Wagon	80220	1,866#
Tender 220 BST-T (trailer included)	80221	3,495#
Tender 240RT6 Wagon	80242	2,545#
Tender 240RT6-BWT (trailer included)	80247	4,475#
Tender 240RT6-T (trailer included)	80244	4,174#
Tender 240RT8 Wagon	80245	2,604#
Tender 240RT8-BWT (trailer included)	80241	4,534#
Tender 240RT8-T (trailer included)	80246	4,232#
Tender 240SE-T (trailer included)	80243	4,491#
Tender 242RT (unibody)	80121	4,305#
Tender 375RT6 Wagon	80375	3,094#
Tender 375RT6-T (trailer included)	80378	5,636#
Tender 375RT6-BWT (trailer included)	80374	5,942#
Tender 375RT8 Wagon	80376	3,106#
Tender 375RT8-BWT (trailer included)	80377	5,913#
Tender 375RT8-T (trailer included)	80379	5,607#
Tender T2SE-T (trailer included)	80201	2,002#
Tender T2-T (trailer included)	80200	1,555#

Tender T4SE Wagon	80401	2,803#
Tender T4SE-BWT (trailer included)	80403	4,833#
Tender T4SE-T (trailer included)	80402	4,431#
T6000ST Trailer	80311	826#
T14000ST Trailer	80307	1,628#
T1400GN Trailer	80342	1,663#
T21000ST Trailer	80308	2,501#
Tender 275BH-6DX (trailer included)	80203	4,807#
Tender 275GN-6DX (trailer included)	80204	5,399#
Tender 275-6DX	80202	4,188#
Tender 275BH-8DX (trailer included)	80206	4,924#
Tender 275GN-8DX (trailer included)	80207	5,517#
Tender 275-8DX	80205	4,305#
Tender 375BH-6DX (trailer included)	80332	5,029#
Tender 375GN-6DX (trailer included)	80333	5,623#
Tender 375-6DX	80331	4,343#
Tender 375BH-8DX (trailer included)	80335	5,146#
Tender 375GN-8DX (trailer included)	80336	5,739#
Tender 375-8DX	80334	4,460#

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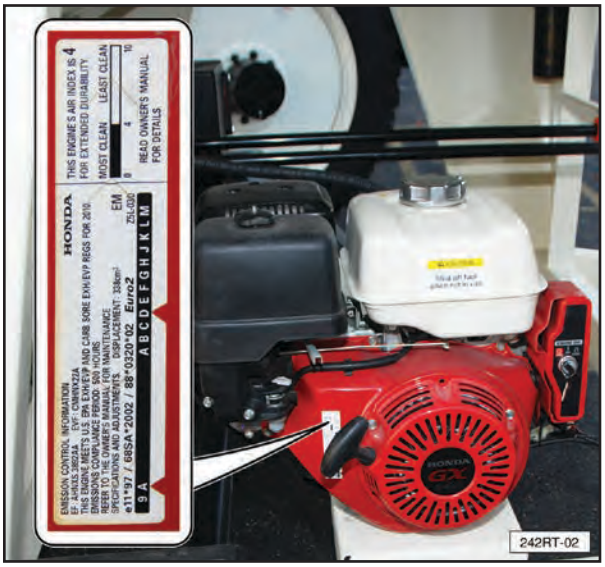
IMPORTANT INFORMATION

SERIAL NUMBER LOCATION

Please provide the serial number of your Meridian 242RT Seed Tender and engine when ordering parts or requesting service or other information.

The serial number plates are located where indicated. Please record the numbers in the space provided below for easy reference.

Seed Tender



Engine

Model Number: 242RT

Serial Number: _____

Engine Serial Number: _____

CONTENTS

1. INTRODUCTION

1.1 CONGRATULATIONS

Congratulations on your choice of a Meridian Manufacturing Group 242RT Bulk Seed Tender to complement your seed delivery system in your farming operation. This equipment has been designed and manufactured to meet the exacting standards for such equipment in the agricultural industry and will keep your seed delivery system at optimum efficiency.

The Bulk Seed Tender system is designed to handle any kind of bulk seed, quickly transport it, and then transfer it into planters and drills, as required. This unit is designed to not only off-load bulk seed into the planting equipment, but it can also load itself from a bulk seed storage container or truck.

Safe, efficient, and trouble-free operation of your Bulk Seed Tender requires that you and anyone else who will be operating or maintaining the machine, read and understand the Safety, Operation, Maintenance, and Troubleshooting information contained within this Operator's Manual.

This manual covers the 242RT model manufactured by Meridian Manufacturing Group, Inc. Use the Table of Contents and Index as a guide to locate required information.

1.2 OPERATOR ORIENTATION

The directions left, right, front, and rear, as mentioned throughout this manual, are as seen from the truck drivers' seat and facing in the direction of travel.

1.3 OWNER/OPERATOR

It is the responsibility of the owner or operator to read this manual and to train all other operators before they start working with the machine. Follow all safety instructions exactly. Safety is everyone's business. By following recommended procedures, a safe working environment is provided for the operator, bystanders, and the area around the work site. Untrained operators are not qualified and must not operate the machine.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment. It is the responsibility of the owner or operator to read this manual and to train all operators before they start working with the machine. Follow all safety instructions as laid out in this manual.

Keep this manual handy for easy reference and to pass on to new operators or owners. Call your Meridian Manufacturing Group, Inc. dealer if you need assistance, information, or additional copies of the manuals.

The information, specifications, and illustrations in this manual are those in effect at the time of printing. We reserve the right to change specifications or design at any time without notice.

SAFETY ALERT SYMBOL

This Safety Alert symbol means
ATTENTION! BECOME ALERT!
YOUR SAFETY IS INVOLVED!

The Safety Alert symbol identifies important safety messages on the Meridian Bulk Seed Tender Models and in the manual. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

WHY IS SAFETY IMPORTANT TO YOU?

3 Big Reasons

• Accidents Disable and Kill •

• Accidents Cost •

• Accidents Can Be Avoided •

SIGNAL WORDS:

Note the use of the signal words **DANGER, WARNING,** and **CAUTION** with the safety messages. The appropriate signal word for each message has been selected using the following guidelines:

⚠CAUTION

CAUTION - Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

⚠WARNING

WARNING - Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

⚠DANGER

DANGER - Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components which, for functional purposes, cannot be guarded.

If you have any questions not answered in this manual, require additional copies of the manual, or the manual is damaged, please contact your dealer or Meridian Manufacturing Group, 2902 Expansion Blvd., Storm Lake, Iowa, 50588, toll free 1-800-437-2334, phone (712) 732-1780, or fax (712) 732-1028.

YOU are responsible for the **SAFE** operation and maintenance of your Meridian Manufacturing Group Bulk Seed Tender. **YOU** must ensure that you and anyone else who is going to operate, maintain, or work around the Bulk Seed Tender be familiar with the operating and maintenance procedures and related **SAFETY** information contained in this manual. This manual will take you step-by-step through your working day and alert you to all good safety practices that should be adhered to while operating the Bulk Seed Tender system.

Remember, **YOU** are the key to safety. Good safety practices not only protect you but also the people around you. Make these practices a working part of your safety program. Be certain that **EVERYONE** operating this equipment is familiar with the recommended operating and maintenance procedures and follow all the safety precautions. Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

- Bulk Seed Tender system owners must give operating instructions to operators or employees before allowing them to operate the machine, and then annually thereafter per OSHA (Occupational Safety and Health Administration) regulation 1928.57.
- The most important safety feature on this equipment is a **SAFE** operator. It is the operator's responsibility to read and follow **ALL** Safety and Operating instructions in the manual. Most accidents can be avoided.
- A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death. Always be and stay alert to any possible unsafe operating or maintenance procedures or conditions.
- Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety of the components and systems and could affect the life of the equipment, possibly invalidating the warranty coverage.
- Think SAFETY! Work SAFELY!

2.1 GENERAL SAFETY

1.  Read and understand the Operator's Manual and all safety signs before operating, maintaining, adjusting, filling, unloading, or unplugging the Bulk Seed Tender system.
2.  Have a first aid kit available for use should the need arise and know how to use it.
3.  Have a fire extinguisher available for use should the need arise and know how to use it.
4.  Do not allow riders.
5. When working around or operating this equipment, wear appropriate personal protective equipment. This list includes but is not limited to:

   - A hard hat
   - Protective shoes with slip resistant soles
   - Protective goggles, glasses, or face shield
   - Heavy gloves and protective clothing
   - Respirator
6.  Do not allow long hair, loose fitting clothing, or jewelry around equipment.
7.  Install and secure all guards before starting.
8. 

   Stop engine, remove ignition key, and wait for all moving parts to stop before servicing, repairing, adjusting, loading, filling, or unplugging.
9.  Establish a lock-out or tag-out policy for the work site. Be sure all personnel are trained in and follow all procedures. Lock-out or tag-out all power sources before working around loading/ unloading equipment.
10.  Clear the area of people, especially small children, before starting.
11.  Review safety related items annually with all personnel who will be operating, using, or maintaining the Bulk Seed Tender system.

2.2 EQUIPMENT SAFETY GUIDELINES

1. Safety of the operator and bystanders is one of the main concerns in designing and developing a machine. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury or death, study the following precautions and insist those working with you, or for you, follow them.

2. In order to provide a better view, certain photographs or illustrations in this manual may show an assembly with a safety shield removed. However, equipment should never be operated in this condition. Keep all shields in place. If shield removal becomes necessary for repairs, replace the shield prior to use.

3. Never use alcoholic beverages or sedative drugs while operating this equipment. Consult your doctor about operating this machine while taking prescription medications.

4. Under no circumstances should young children be allowed to work with this equipment. Do not allow persons to operate or assemble this unit until they have read this manual and have developed a thorough understanding of the safety precautions and how it works. Review the safety instructions with all users annually.

5. This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible, properly trained, and physically able person familiar with farm machinery and trained in this equipment's operations. If the elderly are assisting with farm work, their physical limitations need to be recognized and accommodated.

6. Never exceed the limits of a piece of machinery. If its ability to do a job, or to do so safely, is in question - **DON'T TRY IT.**

7. Do not modify the equipment in any way. Unauthorized modification may result in serious injury or death and may impair the function and life of the equipment.

8. In addition to the design and configuration of this implement, including Safety Signs and Safety Equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of the machine. Refer to Safety Messages and operation instruction in each of the appropriate sections of the auxiliary equipment and machine Manuals. Note all Safety Signs affixed to the auxiliary equipment.

2.3 SAFETY TRAINING

1. Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by a single careless act of an operator or bystander.

2. In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of this equipment.

3. The best safety feature is an informed, careful operator. It is the operator's responsibility to read and comply with ALL Safety and Operating instructions in the manual. Accidents can be avoided.

4. Working with unfamiliar equipment can lead to injuries. Read this manual, as well as the manual for your auxiliary equipment, before assembling or operating to acquaint yourself with the machines. If this machine is used by any person other than yourself, it is your responsibility to make certain that the operator reads and understands the operator's manuals and is instructed in safe and proper use.

5. Know your controls and how to immediately stop augers, conveyors, and any other auxiliary equipment in an emergency. Read this manual and the one provided with all auxiliary equipment.

6. Train all new personnel and review instructions frequently with employees. Be certain only a properly trained and physically able person will operate the machinery. A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death.

2.4 SAFETY SIGNS

1.  Keep safety signs clean and legible at all times. Replace any safety sign or instruction sign that is missing or not legible. Refer to the Safety Sign Location section for additional information.

2. Replacement parts that displayed a safety sign should also display the current sign.

3. Replacement safety signs (labels) are available from your authorized Dealer Parts Department or the factory at no cost.

2.4.1 How to Install Safety Signs

- Be sure that the installation area is clean and dry.
- Be sure temperature is above 50°F (10°C).
- Determine exact position before you remove the backing paper.
- Remove the smallest portion of the split backing paper.
- Align the sign over the specified area and carefully press the small portion with the exposed sticky backing in place.
- Slowly peel back the remaining paper and carefully smooth the remaining portion of the sign in place.
- Small air pockets can be pierced with a pin and smoothed out using a piece of sign backing paper.

2.5 PREPARATION

1.  Never operate the seed delivery system and auxiliary equipment until you have read and completely understand this manual, the auxiliary equipment Operator's Manual, and each of the Safety Messages found on the safety signs on the delivery system and auxiliary equipment.

2.  **PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMANENT HEARING LOSS!** Motors or equipment can be noisy enough to cause permanent or partial hearing loss. We recommend that you wear hearing protection on a full-time basis if the noise in the operator's position exceeds 80db. NOTE: Hearing loss from loud noise (tractors, chain saws, radios, and other such sources close to the ear) is cumulative over a lifetime with uncertain natural recovery.

3.  Clear working area of debris, trash, or hidden obstacles that might be hooked or snagged, causing injury, damage, or tripping.

4. Operate only in daylight or good artificial light.

5. Be sure machine is properly attached to the trailer, adjusted, and in good operating condition.

6.  Ensure that all guards, shielding, and safety signs are properly installed and in good condition.

7.  Before starting, give the machine a "once over" for any loose bolts, worn parts, cracks, leaks, frayed belts, and make necessary repairs. Always follow maintenance instructions.

2.6 OPERATING SAFETY

1.  Make sure that anyone who will be operating the Bulk Seed Tender system or working on or around the unit reads and understands all the operating, maintenance, and safety information in the operator's manual.

2.  Keep all bystanders, especially children, away from the machine when loading or unloading, or when authorized personnel are carrying out maintenance work.

3.  Establish a lock-out or tag-out policy for the work site. Be sure all personnel are trained in and follow all procedures. Lock-out or tag-out all power sources before servicing the unit or working around loading/ unloading equipment.

4. 

Stop engine, remove ignition key, and wait for all moving parts to stop before servicing, repairing, adjusting, loading, filling, or unplugging.

5. 
Keep working area clean and free of debris to prevent slipping or tripping.

6. 
Do not allow riders on the trailer or frame when transporting.

7. 
Keep hands, feet, hair, and clothing away from rotating parts.

8. 
Do not place hands, fingers, or arms between moving parts.

9. 
Stay away from overhead power lines. Electrocution can occur without direct contact.

10. 
Install and secure all guards before starting.

11. 
Use care when climbing on frame or ladder to prevent slipping or falling.

12. 
Fasten frame securely to trailer before transporting.

13. Always empty compartment 2 first to prevent an unbalanced load. An unbalanced load can cause the tender to upend.

14. 
Review safety related items annually with all personnel who will be operating, using, or maintaining the seed delivery system.

2.7 MAINTENANCE SAFETY

1. Good maintenance is your responsibility. Poor maintenance is an invitation for trouble.

2. Follow good shop practices.

3. 
Ensure proper ventilation. Never operate the engine in a closed building. The exhaust fumes may cause asphyxiation.

4. 

Before working on this machine, shut off the engine and remove the ignition keys.

5. 
Never work under equipment unless it is securely blocked.

6. 
Always use personal protection devices, such as eye, hand, and hearing protectors, when performing any service or maintenance.

7. 

Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to the original specifications. The manufacturer will not be responsible for injuries or damages caused by use of unapproved parts and/or accessories.

8. 
A fire extinguisher and first aid kit should be readily accessible while performing maintenance on this equipment.

9. 
Periodically tighten all bolts, nuts, and screws and ensure all cotter pins are properly installed to ensure the unit is in safe condition.

10. 
When completing a maintenance or service function, make sure all safety shields and devices are installed before placing the unit in service.

11. 
Turn OFF all electrical power and tag-out or lock-out the power source before performing any electrical test or before connecting or disconnecting valve coils or other electrical loads.

12. 
Never operate or test any function of the equipment when people are in an area of a potential crush hazard.

2.8 LOCK-OUT OR TAG-OUT SAFETY

1. 
Establish a formal Lock-Out or Tag-Out program for your operation.

2. 
Train all operators and service personnel before allowing them to work around the seed delivery system.

3. 
Provide tags on the machine and a sign-up sheet to record tag-out details.

2.9 STORAGE SAFETY

1. Store the unit in an area away from human activity.
2. Do not permit children to play on or around the stored machine.
3. Store the unit in a dry, level area. Support the frame with planks, if required.

2.10 TRANSPORT SAFETY

1.  Comply with local, state, and federal laws governing safety and conveyance of farm machinery on public roads.
2. Ensure all lights, reflectors, and other lighting requirements are installed and in good working condition.
3. Ensure that the trailer is equipped with brakes that are in good working order. Be familiar with their operation.
4. Do not exceed a safe travel speed. Slow down for rough terrain and when cornering.
5.  Fasten frame securely to trailer before transporting.
6. Be sure the trailer is securely hitched to the towing vehicle and a retainer is used through the hitch jaws. Always attach a safety chain between the hitch and the towing vehicle.
7.  Stay away from overhead power lines. Electrocution can occur without direct contact.
8. Plan your route to avoid heavy traffic.
9. Install auger spout transport lock before transporting.
10. Do not drink and drive.
11. Be a safe and courteous driver. Yield to oncoming traffic in all situations, including narrow bridges, intersections, etc. Watch for traffic when operating near or crossing roadways.
12.  Never allow riders on the tender or the trailer.

2.11 REFUELLING SAFETY

1.  Handle fuel with care. It is highly flammable.
2.  Allow engine to cool for five minutes before refuelling. Clean up spilled fuel before restarting engine.
3.  Do not refuel the machine while smoking or when near open flame or sparks.
4. Fill fuel tank outdoors.
5.  Prevent fires by keeping machine clean of accumulated trash, straw, grease, and debris.

2.12 BATTERY SAFETY

1.  Keep all sparks and flames away from batteries, as gas given off by electrolyte is explosive.
2. Avoid contact with battery electrolyte: wash off any spilled electrolyte immediately.
3.  Wear safety glasses when working near batteries.
4. Do not tip batteries more than 45 degrees, to avoid electrolyte loss.
5.  To avoid injury from spark or short circuit, disconnect battery ground cable before servicing any part of electrical system.

2.13 SIGN-OFF FORM

Meridian Manufacturing Group follows the general Safety Standards specified by the American Society of Agricultural Engineers (ASAE) and Occupational Safety and Health Administration (OSHA). Anyone who will be operating and/or maintaining the Meridian Manufacturing Group Bulk Seed Tender must read and clearly understand ALL Safety, Operating, and Maintenance information presented in this manual.

Do not allow anyone to operate this equipment until such information has been reviewed. Annually review this information before the season start-up.

Make these periodic reviews of SAFETY and OPERATION a standard practice for all of your equipment. We feel an untrained operator is unqualified to operate this machine.

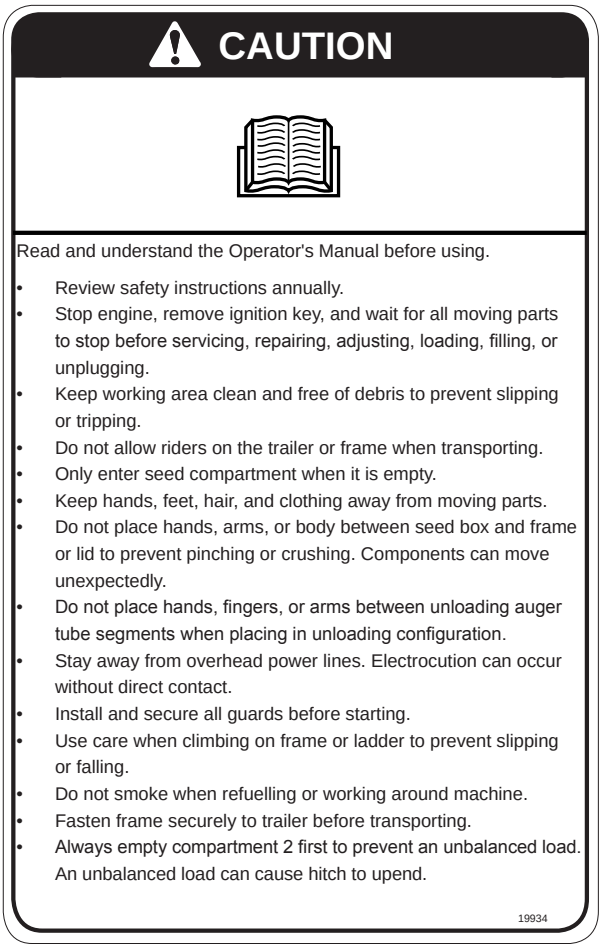
A sign-off sheet is provided for your record keeping to show that all personnel who will be working with the equipment have read and understand the information in the Operator's Manual and have been instructed in the operation of the equipment.

SIGN-OFF FORM		
Date	**Employee's Signature**	**Employer's Signature**

3. SAFETY SIGNS

The types of safety signs and locations on the equipment are shown in the following pages. Good SAFETY AWARENESS requires that you familiarize yourself with the various safety signs, the type of warning and the area, or a particular function related to that area.

REMEMBER - If safety signs have been damaged, removed, become illegible, or parts replaced without signs, new signs must be applied. New safety signs are available from your authorized dealer free of charge.



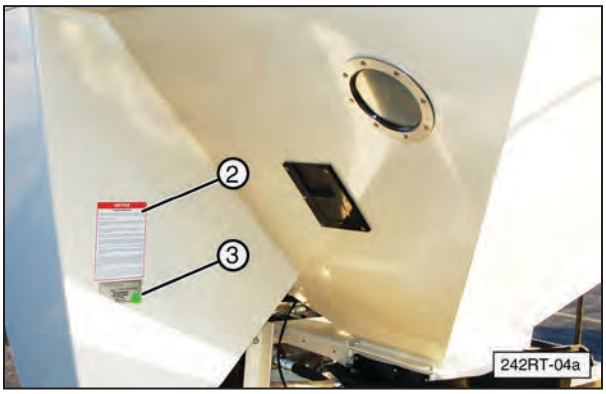
3.1 SAFETY SIGN LOCATIONS

1. CAUTION — Read and Understand (#19934)

CAUTION

- Read and understand the Operator's Manual before using. Review safety instructions annually.
- Stop engine, remove ignition key, and wait for all moving parts to stop before servicing, repairing, adjusting, loading, filling, or unplugging.
- Keep working area clean and free of debris to prevent slipping or tripping.
- Do not allow riders on the trailer or frame when transporting.
- Only enter seed compartment when it is empty.
- Keep hands, feet, hair, and clothing away from moving parts.
- Do not place hands, arms, or body between seed box and frame or lid to prevent pinching or crushing. Components can move unexpectedly.
- Do not place hands, fingers, or arms between unloading auger tube segments when placing in unloading configuration.
- Stay away from overhead power lines. Electrocution can occur without direct contact.
- Install and secure all guards before starting.
- Use care when climbing on frame or ladder to prevent slipping or falling.
- Do not smoke when refuelling or working around machine.
- Fasten frame securely to trailer before transporting.
- In two compartment seed tenders, always empty Compartment 2 first to prevent an unbalanced load. An unbalanced load can cause hitch to upend.

19934



2. NOTICE — Product Warranty (#19944)

NOTICE

Product Warranty

Meridian Manufacturing Group (hereinafter "Meridian") warrants all products manufactured by it to be free of defect in material and workmanship for a period of (1) year from the date of purchase.

This Meridian warranty does not cover:

1. Accessories supplied by Meridian but manufactured by others. Meridian will facilitate the other manufacturer warranty for the benefit of the purchaser but will not be bound thereby (example: augers, trailers, agitators, etc.).

2. Products that have been altered by anyone other than a Meridian employee or are used by the purchaser for the purposes other than what was intended at time of manufacture or used in excess of the "built specifications".

3. Products that are custom manufactured by Meridian utilizing the purchaser's design which deviates from the Meridian normal production line manufacture or customized features of the products.

4. Malfunction or damages to the product from misuse, negligence, customer alteration, accidents or product abuse due to incoming material or poor material flow ability or lack of required performance or required maintenance (e.g. , poor material flow ability caused by incoming wet fertilizer or hot soybean meal, etc.).

5. Loss of time, inconvenience, loss of material, down time or any other consequential damage.

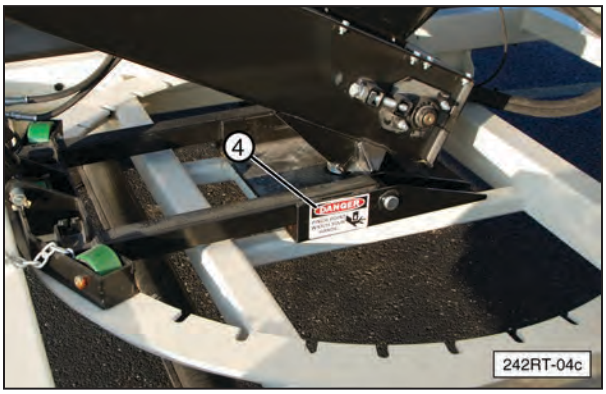
6. Product used for a function that is different than designed intent (e.g., storing soybean meal in grain bin, unacceptable material in the bin such as hot bean meal when product originally designed for other application, etc.).

To activate this warranty, the purchaser must make contact in writing with Meridian within one (1) year of date of purchase. After contact, Meridian has the right to determine the cause and qualify the legitimacy of the claim. Meridian, upon acceptance of a warranty claim shall have a reasonable time to plan any repair or replacement and may effect repair or replacement out of its factory or through contract with a local repair service. If a purchaser after warranty notice is made chooses to make the repair itself, Meridian must approve any expenses before they are incurred to be responsible for customer reimbursement.

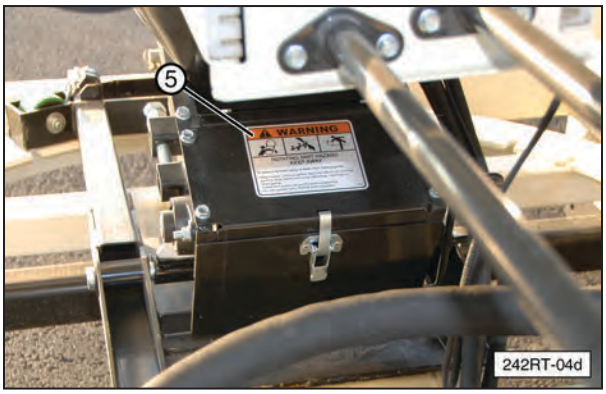
Meridian shall be liable on a warranty claim for repair or replacement of any defective products and this is the purchaser's sole and exclusive remedy. Meridian will not be liable for any other or further remedy including claims for personal injury, property damage or consequential damage. The law of the State of Iowa shall govern and any such claim and any issues with regard to the same shall be resolved in the Iowa District Court for Buena Vista County, Iowa.

18432

3. Product Serial Number Decal (#19984)

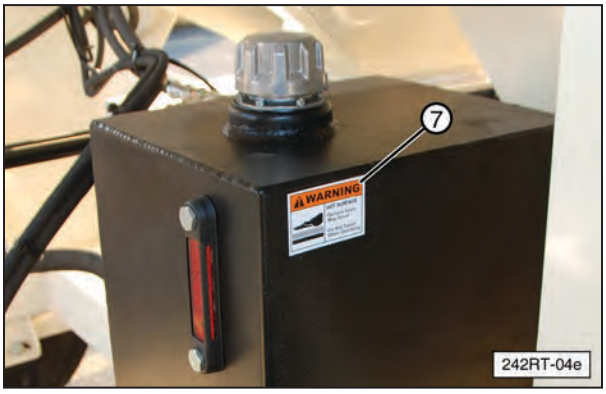


4. DANGER — Pinch Point (#20087)



5. WARNING — Rotating Parts (#19936)

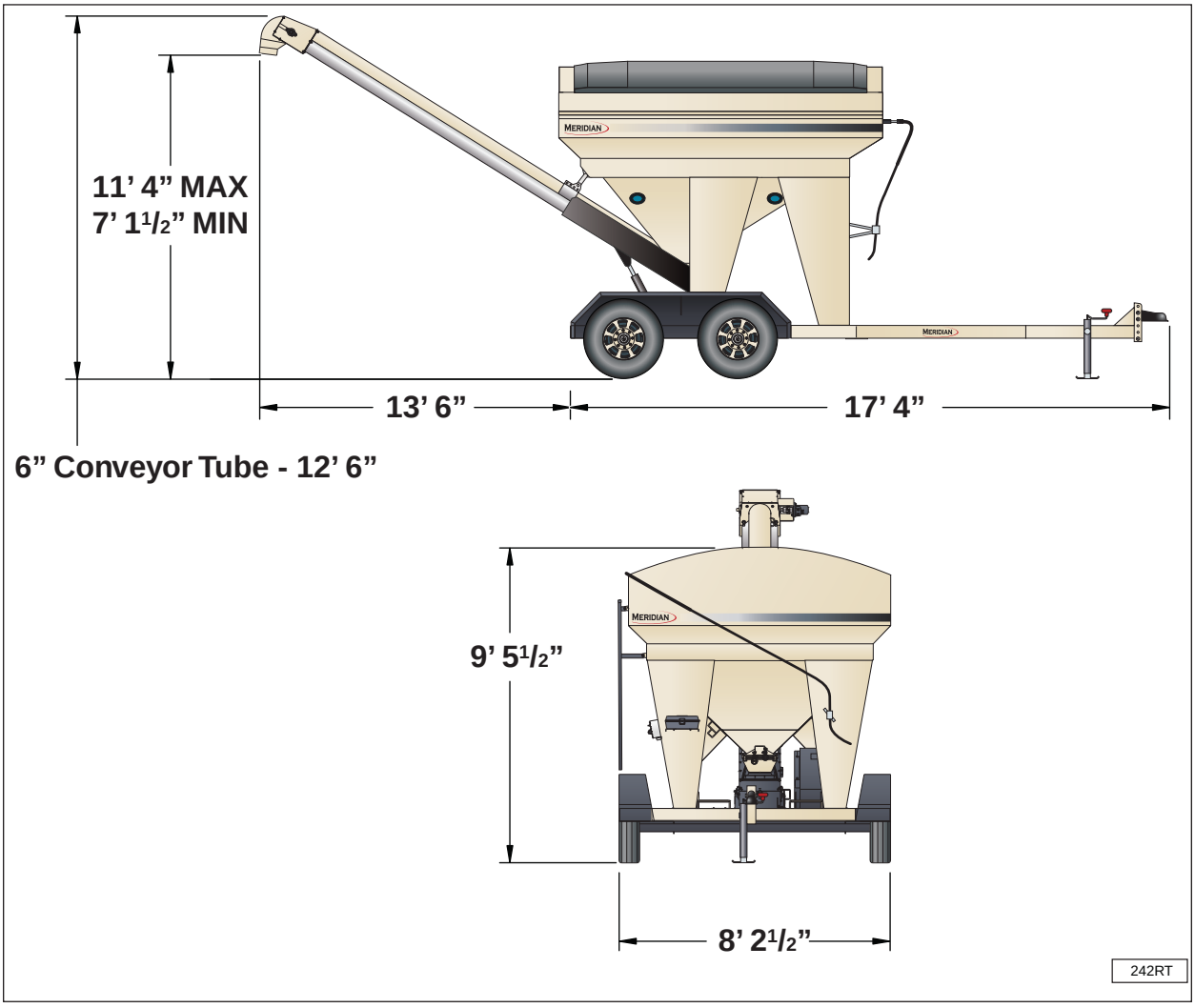
6. WARNING — Fall Hazard (#19939)



7. WARNING — Hot Surface (#20088)

4. SPECIFICATIONS

4.1 OVERALL 242RT SEED TENDER SPECIFICATIONS



4.2 BOLT SPECIFICATIONS

⚠ WARNING

The torque value for bolts and capscrews are identified by their head markings. Replacing higher "Grade" bolts (Grade 8) with lower Grade bolts (Grade 5) will lead to equipment failure and can result in injury or death. Always use replacement bolts with the same Grade markings as the removed bolt.

4.2.1 Bolt Torque Values

Torque figures indicated above are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or capscrews unless otherwise instructed in this manual. When using locking elements, increase torque values by 5%.

Bolt Diameter "A"	SAE Grade 2 N·m (ft-lbs)		SAE Grade 5 N·m (ft-lbs)		SAE Grade 8 N·m (ft-lbs)	
1/4"	8	(6)	12	(9)	17	(12)
5/16"	13	(10)	25	(19)	36	(27)
3/8"	27	(20)	45	(33)	63	(45)
7/16"	41	(30)	72	(53)	100	(75)
1/2"	61	(45)	110	(80)	155	(115)
9/16"	95	(70)	155	(115)	220	(165)
5/8"	128	(95)	215	(160)	305	(220)
3/4"	225	(165)	390	(290)	540	(400)
7/8"	230	(170)	570	(420)	880	(650)
1"	345	(225)	850	(630)	1320	(970)

4.2.2 Grade Markings Chart

 No Markings	**Grade 2** Low or medium carbon steel
 3 Radial Lines	**Grade 5** Medium Carbon Steel, Quenched and Tempered
 6 Radial Lines	**Grade 8** Medium Carbon Alloy Steel, Quenched and Tempered

5. MACHINE COMPONENTS AND CONTROLS

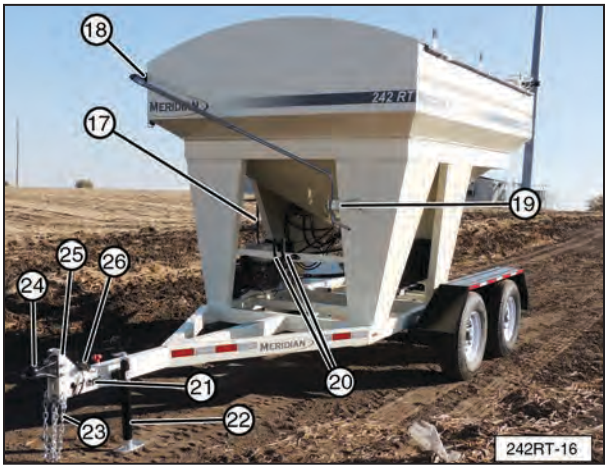
5.1 COMPONENT NOMENCLATURE AND LOCATION

The Meridian 242RT Seed Express model is designed as bulk seed transfer unit to transfer large amounts of seed into a planter or drill.

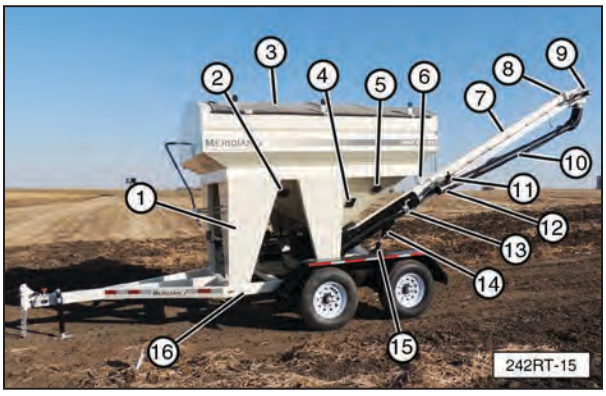
The seed can be dumped into one of two compartments from a seed box or other means. The center-mounted conveyor (7) then transfers the seed from the compartments to a planter or drill. Slide gates (29) at the bottom of the compartments control the flow of seed into the conveyor.

A gasoline engine (40) mounted on the frame powers a hydraulic pump (38), which operates the hydraulic motor (9) for the conveyor. It also powers the cylinder (14) which raises and lowers the conveyor.

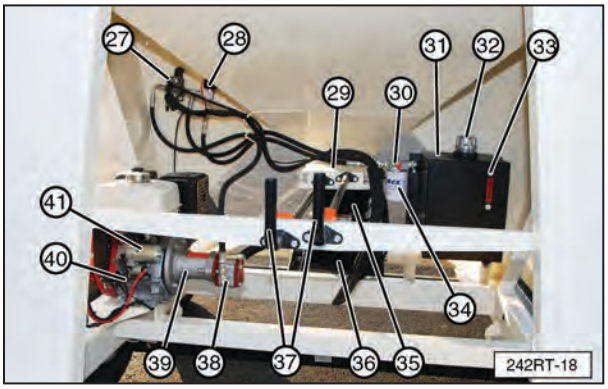
The conveyor is mounted on rotating platform (36) that rotates 180° from side-to-side. A spout (12) on the end of the conveyor allows for convenient distribution.



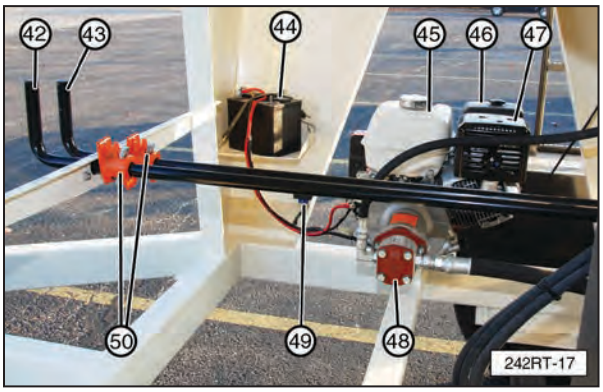
(17) Compartment Access Ladder. (18) Retractable Tarp with Attached Actuator Handle (19) Latch Mechanism to Store Tarp Handle When Not In Use. (20) Push/Pull Handles to Control Bin Slide Gates. (21) Trailer Jack. (22) Trailer Break-Away Switch and Tether Cable. (23) Hitch Safety Chains. (24) Hitch to Receive Ball of Tow Vehicle. (25) Adjustable Height Hitch Bracket. (26) Electrical Plug for Trailer Lights.



(1) Seed Tender Frame. (2) View Glass for Front Compartment. (3) Retractable Tarp. (4) Sample Gate for Rear Compartment. (5) View Glass for Rear Compartment. (6) Conveyor Transport Lock Mechanism. (7) Conveyor. (8) Conveyor Discharge Chute. (9) Hydraulic Motor for Conveyor. (10) Flexible Delivery Chute. (11) Conveyor On/Off Switch Control. (12) Delivery Spout. (13) Adjustable Valve to Control Conveyor Speed. (14) Hydraulic Cylinder to Raise and Lower Conveyor. (15) Conveyor Pivot System Lock. (16) Uni-body Frame.



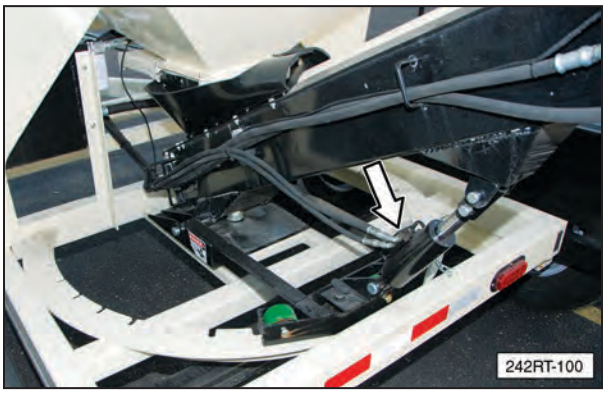
(27) Hydraulic Valve to Raise/Lower Conveyor. (28) On/Off Solenoid Valve for Conveyor Drive Motor. (29) Bin Discharge Slide Gates (30) Dirty Filter Indicator. (31) Hydraulic Tank. (32) Tank Fill Cap. (33) Oil Level Sight Glass. (34) Hydraulic Oil Filter. (35) Conveyor Clean-out Access Door. (36) Conveyor Pivot Mechanism. (37) Push/Pull. Handles for Bin Slide Gates. (38) Hydraulic Pump. (39) Bell Housing with Coupler (connects engine to pump). (40) Gasoline Engine. (41) Electric Starter.



(43) Control Handle for Front Bin Slide Gate. (42) Control Handle for Rear Bin Slide Gate. (44) 12 Volt Battery. (45) Fuel Tank. (46) Air Cleaner. (47) Muffler. (48) Hydraulic Pump. (49) Rectifier Regulator (regulate voltage when charging battery). (50) Adjustable Slide Gate Stops.

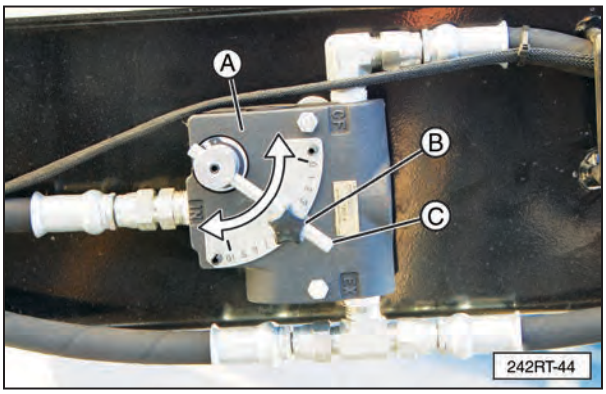
5.1.1 Hydraulic Cylinder Check Valves

The hydraulic cylinder used to raise and lower the conveyor has a built-in check valve unit (A). This check valve unit prevents the conveyor from lowering if a hydraulic line breaks. Pressure from the hose must be present to unseat the check valve to allow the cylinder to extend or retract.



5.1.2 Conveyor Belt Speed Adjustment

The conveyor belt speed is controlled by the adjustable valve (A) located on the side of the conveyor. To adjust the speed, loosen the knob (B) by turning counterclockwise and move the lever (C) in the desired direction. Move the lever toward zero (0) for slower speed or toward ten (10) for higher speed. Tighten the knob to hold the lever in place.



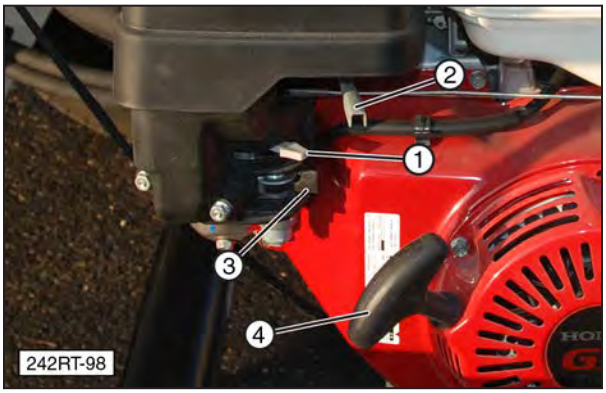
5.2 ENGINE AND CONTROLS

A Honda® engine is used with this unit. Always read the engine Operator's Manual supplied with the seed tender for the detailed operating procedures.

5.2.1 Electrical System Key Switch

This key switch controls the power to the engine electrical system. Turn the key clockwise to the "START" position to crank the engine. When the engine starts, release the key and it will automatically return to the "ON" position. The key must be in the "ON" position for the engine to run. Turn the key counterclockwise to the "OFF" position to stop the engine.

5.2.2 Fuel Controls



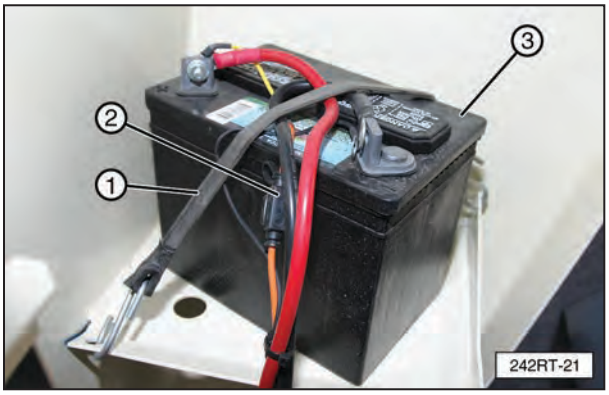
Each engine is equipped with a valve between the fuel tank and the carburetor. Slide the fuel shut-off valve (3) toward the engine to turn ON and away for OFF. Turn the fuel OFF when not in use or before transporting.

The throttle lever (2) controls the engine RPM. Move the lever to increase or decrease the RPM. Always run at maximum throttle while operating and run at low idle before shutting off the engine.

The choke lever (1) controls the fuel/air mixture to the engine. Move the choke lever away from the engine when starting if the engine is cold. Push the choke lever back toward the engine to "Open" the choke as the engine warms. Always open the choke fully during operation.

Pulling the starting rope is an optional method used to start the engine. Grasp the T-bar handle (4) firmly and pull the rope sharply to start the engine. Turn the start key to the "ON" position before trying to start the engine.

5.2.3 Battery (12 Volt)



A 12 Volt battery (3) supplies the electrical power to start the gasoline engine and also to operate the solenoid valve that controls flow to the conveyor hydraulic motor. When the engine is operating, a trickle charge is sent to the battery to keep it fully charged. The rubber strap (1) is used to hold the battery in place. The fuse holder (2) contains a fuse for the power supply to the conveyor solenoid valve circuit.

6. PRE-OPERATING INSTRUCTIONS

6.1 MACHINE BREAK-IN PERIOD

A special break-in procedure has been developed to ensure the integrity of the seed tender when first put into service. Follow the Before Starting instructions and then follow the Inspections for 1/2, 5, and 10 Hours instructions at the appropriate interval.

After completing these instructions, follow the normal service schedule in the Maintenance section and engine manual.

6.1.1 Before Starting

1. Read and follow the instructions in the Honda® engine and the Meridian Operator's Manuals.
2. Review and follow Set-Up Instructions and the Pre-operation Checklist before starting machine.
3. Initially check wheel bolt torque and then again at 10, 25, and 50 miles. Refer to the Wheel Bolt Torque Requirements section in this manual for tightening instructions.
4. Start the engine and check the controls. Be sure that they function properly.

6.1.2 Inspections for 1/2, 5, and 10 Hours

1. Recheck machine fluid levels. Refill, as required.
2. Recheck the tension and alignment of the delivery belt.
3. Recheck hardware and fasteners; frame to trailer tie-downs, all fasteners, and wheel bolts. Tighten to their specified torque.
4. At 10 hours, change the engine oil with the specified oil.

6.2 PRE-OPERATION CHECKLIST

Efficient and safe operation of the Meridian Bulk Seed Tender system requires that each operator reads and follows the operating procedures and all related safety precautions outlined in this section.

A pre-operational checklist is provided for the operator. It is important for both personal safety and maintaining the efficient operation of the delivery system that this checklist be followed.

Before operating the delivery system and each time thereafter, the following areas should be checked:

1. Lubricate the machine, as outlined and shown in the Grease/Lubrication Location Diagram in the Maintenance section of this manual. Follow the prescribed schedule.
2. Check the engine fluid levels, fuel, and crankcase oil. Add, as required.

IMPORTANT

The engine warranty is void if the engine is run without oil.

3. Check hardware and fasteners; seed tender frame to trailer tie-downs, hitch bolts, trailer hitch to trailer bolts, and all other fasteners. Tighten to their specified torque.
4. Make sure the wheel bolt lug nuts are tight.
5. Check the tires and ensure that they are inflated to their specified pressure.
6. Remove all entangled material.
7. Visually inspect the conveyor and frame for damage.
8. Test the Break-Away brake unit and the trailer brakes.
    a. Make sure the trailer brakes are operating properly.
    b. Make sure the trip wire to the break-away switch is connected to the tow vehicle.
    c. Make sure the pin is correctly installed in the break-away switch.
    d. Press the Test button. The indicator should illuminate green. If the red light illuminates, the battery charge is low. Refer to the Break-Away System in the Maintenance section for instructions on charging the battery.
9. Check the fluid level in the hydraulic tank. Add fluid, as needed.
10. Start the engine and check the filter status indicator. Replace the filter if indicated.
11. Check the tension of the delivery belt. Follow the instructions in the manual to correct the tension and/or alignment.
12. When the machine is operating, check the alignment of the delivery belt. Follow the instructions in the manual to correct the tension and/or alignment.

7. OPERATION

⚠ OPERATING SAFETY

- Make sure anyone operating the seed delivery system or working on or around the unit reads and understands all the operating, maintenance, and safety information in the Operator's Manual.
- Keep all bystanders, especially children, away from the machine when loading or unloading is being done, or when authorized personnel are carrying out maintenance work.
- Establish a lock-out or tag-out policy for the work site. Be sure all personnel are trained in and follow all procedures. Lock-out or tag-out all power sources before servicing the unit or working around loading/unloading equipment.
- Stop engine, remove ignition key, and wait for all moving parts to stop before servicing, repairing, adjusting, loading, filling, or unplugging.
- Keep working area clean and free of debris to prevent slipping or tripping.
- Do not allow riders on the trailer or frame when transporting.
- Keep hands, feet, hair, and clothing away from moving parts.
- Stay away from overhead power lines. Electrocution can occur without direct contact.
- Install and secure all guards before starting.
- Use care when climbing on frame or ladder to prevent slipping or falling.
- Do not smoke when refueling or working around machine.
- Review safety related items annually with all personnel who will be operating, using, or maintaining the seed delivery system.

7.1 CONNECTING THE TRAILER

⚠ WARNING

To prevent serious injury or death from upending hazard, do not stand over hitch when unhooking the trailer from the tow vehicle. Load, or fill, the forward compartment first to keep weight on the hitch. Unload, or empty, the rear compartment first to keep weight on the hitch.

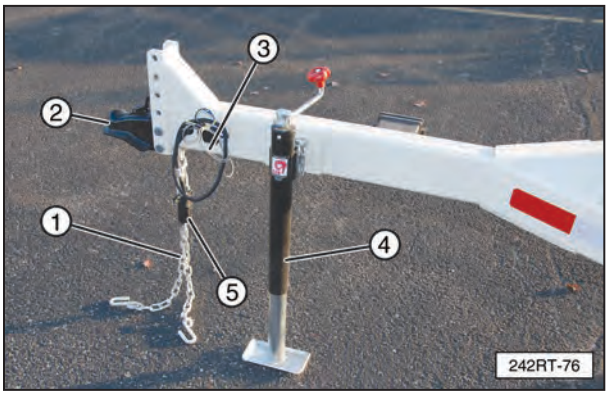
7.1.1 Bumper Hitch

1. Complete the Pre-operation Checklist.

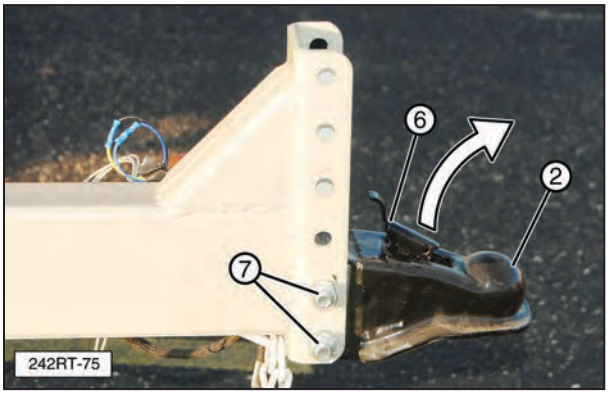
⚠ CAUTION

Ensure that all bystanders, especially small children, are clear of the working area. Ensure there is enough room and clearance to safely back up to the machine.

2. Use the trailer jack (4) to raise the hitch above the height of the ball on the tow vehicle (adjustable height hitch [2] assembly shown).



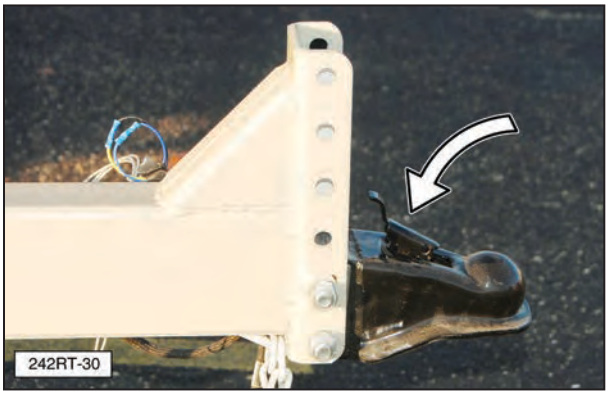
3. Release or open the receiver by lifting the locking handle (6).



4. Slowly back the tow vehicle until the hitch (2) and ball are aligned.
   Note: The hitch (2) height can to be adjusted to ensure the trailer is level when connected. Remove the bolts (7), place the hitch at the desired height, install the bolts and torque the nuts to 70 ft-lbs (95 N·m).

5. Lower the hitch onto the ball.

6. Close the locking handle (6) to lock the hitch onto the ball. A hole is provided in this handle to place a padlock to ensure the handle stays in the locked position.

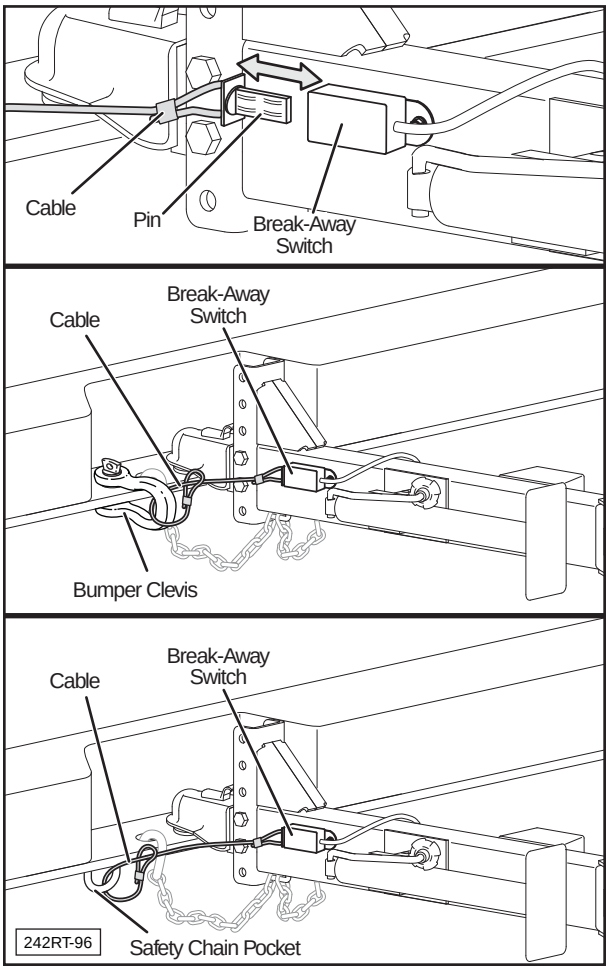


7. Raise the jack and place it in its stowed position.

8. Attach the safety chains securely to the tow vehicle to prevent unexpected separation. Cross the chains when attaching.

9. Connect the wiring harness for the lights and brakes.

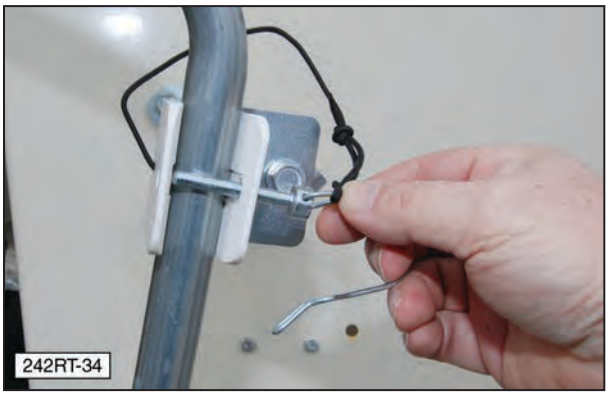
10. Connect the break-away system cable to the tow vehicle. Make sure the key on the end of the cable is properly plugged into the receiving unit.



11. Route all the cables in a manner that will prevent snagging. Be sure to provide slack for turning.

7.2 OPENING AND CLOSING ROLL-UP TARP

1. Remove the retaining pin from the crank holder. Using both hands, carefully remove the crank from the holder.

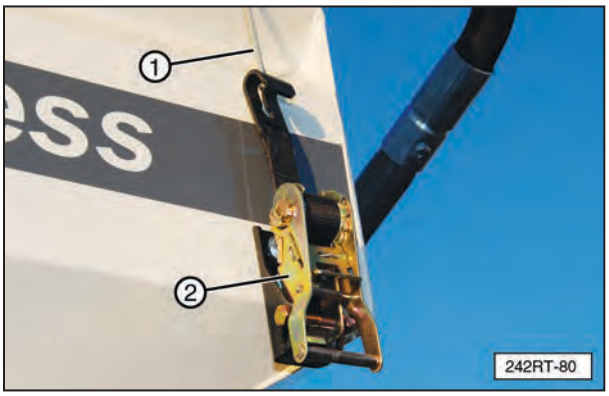


2. Extend the crank handle assembly to a comfortable operating position.

3. Roll the tarp to the fully opened position.

4. Place the crank back in the holder and reinsert the retaining pin.

5. Two cables (1) are used to provide proper tarp tension. Use the ratchet tighteners (2) to adjust the cable tension.



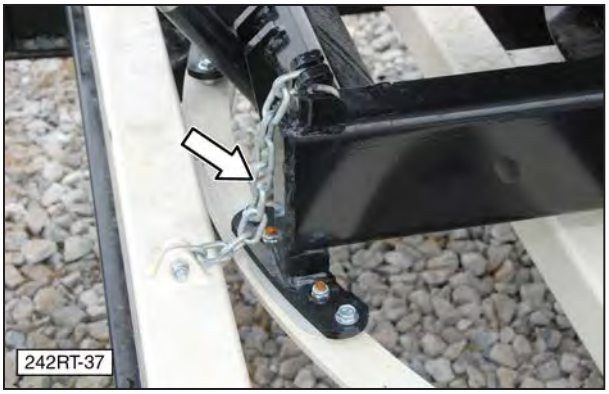
7.3 OPERATION

This Operation section provides a step-by-step procedure for first loading seed into the seed tender at the farm and then unloading it in the field.

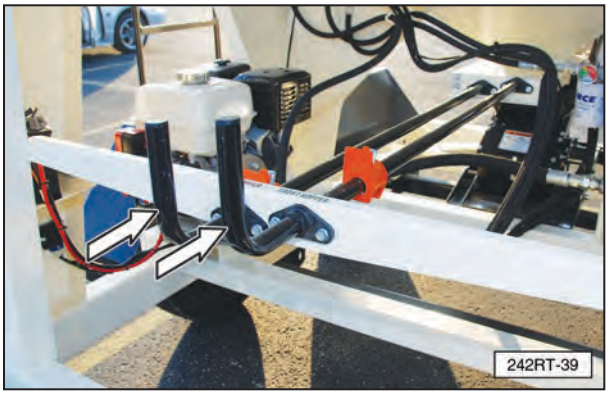
7.3.1 Loading (Filling the Seed Tender)

IMPORTANT

An anti-rotation chain prevents the rotating platform from swinging side-to-side when road transporting the seed tender from one location to another. Unhook the chain before moving the table to prevent damage to the machine.



1. Before loading seed, make sure the two slide gates are in the closed position.



2. Open the roll-up tarp.

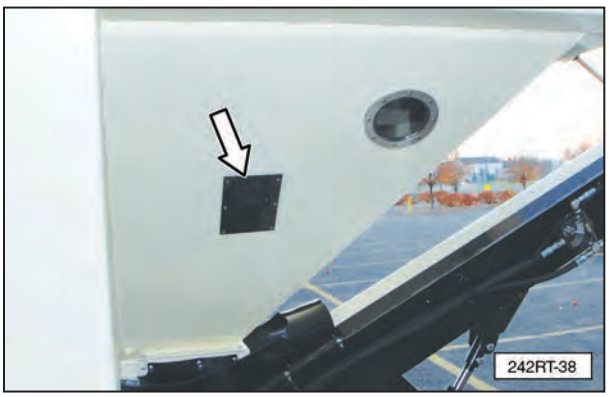
3. Load the seed compartments from a storage box, storage bag, or other means directly into the seed tender compartments.

⚠CAUTION

Always load compartment 1 first to maintain a positive tongue weight. Negative tongue weight can cause the hitch to rapidly swing upward if not securely fastened to the tow vehicle, which can result in personal injury.

4. When the seed tender is filled, move it to the location of the planting equipment following all safe towing practices.

NOTE: Two sample slide gates, one in each compartment, can be used to retrieve samples of the seed from the compartments.



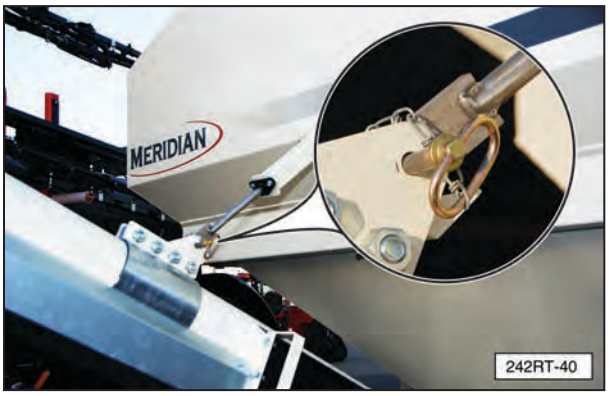
7.3.2 Unloading (Filling the Planter)

⚠CAUTION

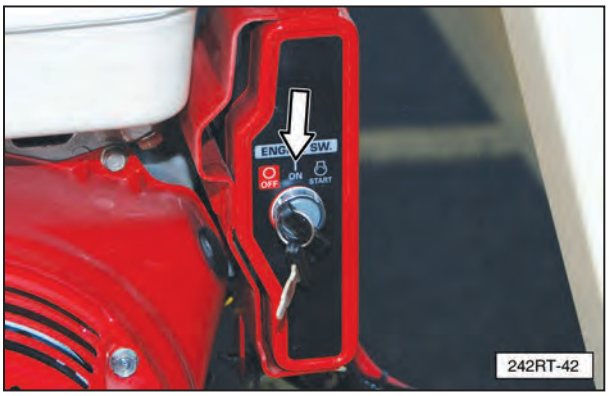
Always unload compartment 2 first to maintain a positive tongue weight. Negative tongue weight can cause the hitch to rapidly swing upward if not securely fastened to the tow vehicle, which can result in personal injury.

1. Before unloading, shut off the engine of the tow vehicle, set the parking brake, and remove the ignition key.

2. Remove the lock pin from the damper mechanism. The conveyor may need to be lowered slightly to remove the tension from the lock pin. Store the pin in a safe location.



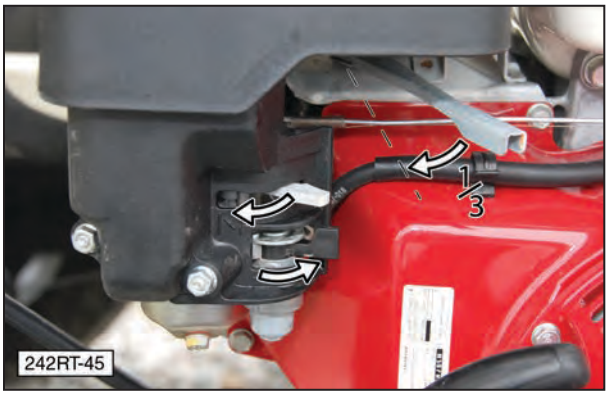
3. Turn the key switch to the ON position.



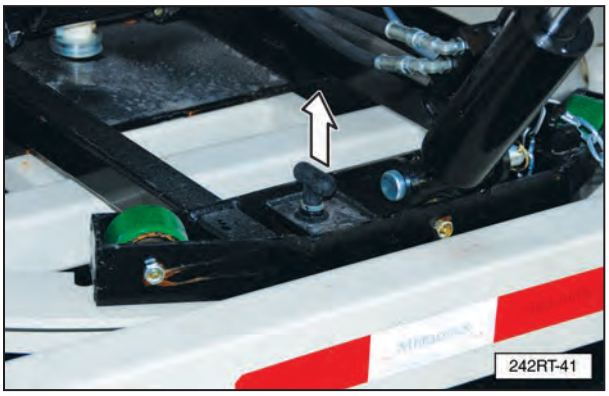
4. Move the fuel valve lever to the ON position (toward the front of the machine).

5. To start a cold engine, move the choke lever to the CLOSED position (toward the back of the machine). Also, move the throttle lever 1/3 the distance of the full open position.

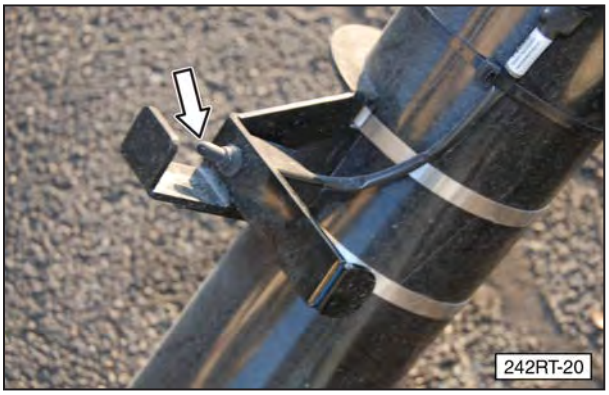
6. Start the engine and move the throttle lever to run the engine at full speed.



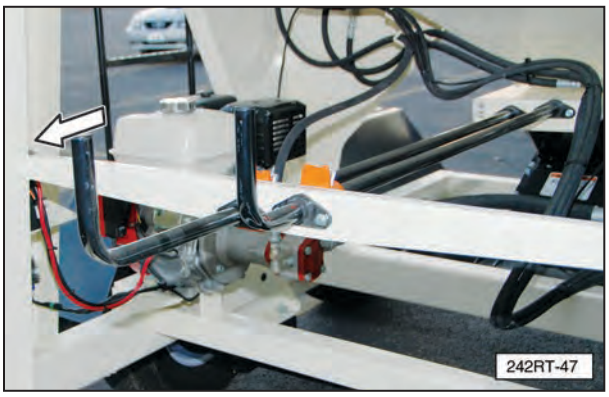
7. Rotate the conveyor to the desired location by removing the lock pin and manually pushing the conveyor to the desired location. Reinsert lock pin.



8. Start the conveyor by actuating the switch located at the end of the spout.



9. Open the slide gate using the push/pull handle for the desired seed flow.



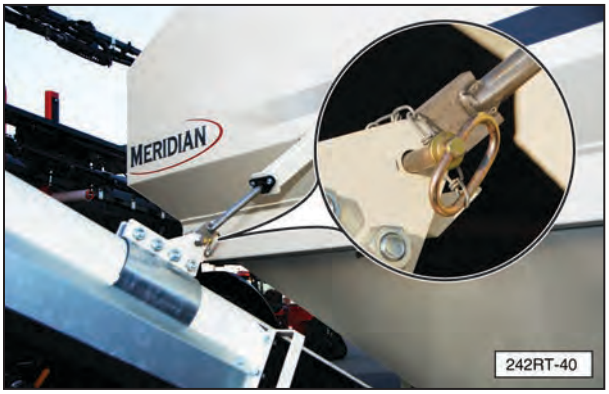
IMPORTANT

Close the slide gate and stop the conveyor prior to the planter's seed box being completely full. If the seed box requires additional seed, start the conveyor without opening the slide gate; this will use the seed that is already on the conveyor. This method will also help prevent overfilling of the seed box or the seed tender's pan.

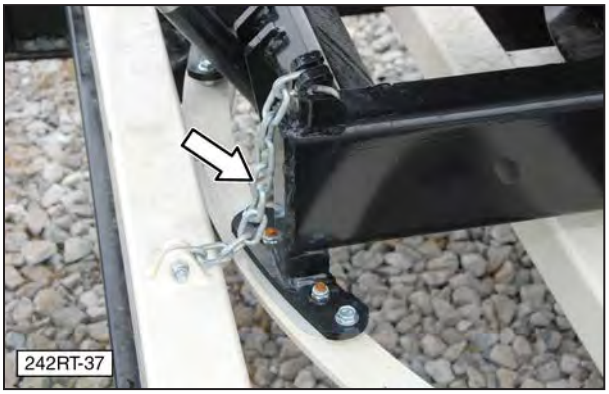
10. When the planter is filled, close the slide gate and then stop the conveyor belt by releasing the switch.

11. When finished loading the planter, return the conveyor to the transport position and install the lock pin and retaining clip.

Note: If the seed tender is being moved within a field location, it is not necessary to install the damper mechanism to the conveyor.

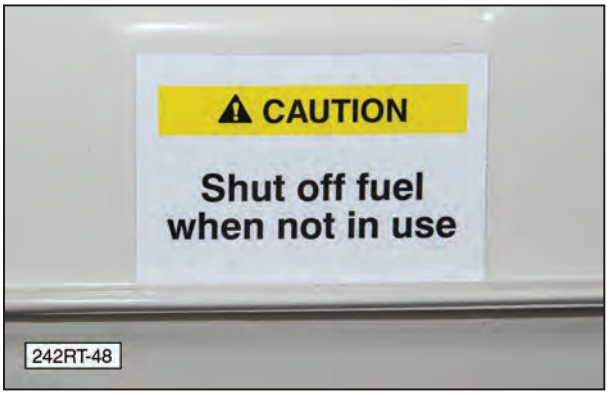


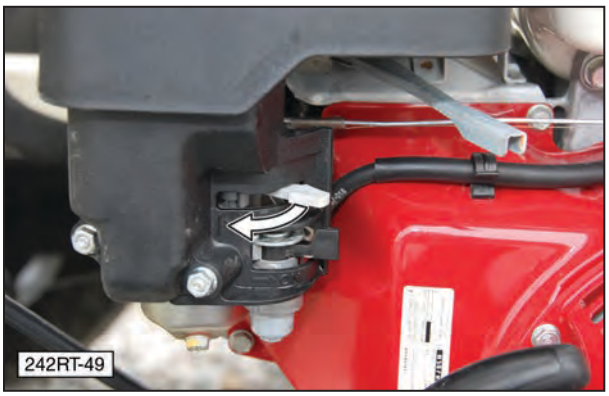
12. Connect the anti-rotation chain to its clip.



13. If necessary, close the roll-up tarp.

14. Place the throttle lever in the low idle position and then the engine's fuel lever in the OFF position before towing the seed tender on the open road.





8. STORAGE

8.1 GENERAL INFORMATION

After planting or when the machine will not be used for a period of time, completely inspect all major systems of the seed tender. Replace or repair any worn or damaged components to prevent unnecessary downtime at the beginning of the next season.

IMPORTANT

To prevent component damage, store the seed tender in a dry, level area. If the seed tender is not attached to a trailer, support the frame with planks to raise the unit off the ground.

8.2 PLACING IN STORAGE

⚠CAUTION

Store the unit in an area away from human activity. To prevent the possibility of serious injury, do not permit children to play on or around the stored machine.

1. Remove all seed from the seed tender.
2. Place the gasoline engine fuel valve in the OFF position.
3. Thoroughly wash the machine with a pressure washer or water hose to remove all dirt, mud, or debris.
4. Inspect rotating parts for entangled material. Remove all entangled materials.
5. Check the condition of the conveyor belt. Replace or adjust, as required.
6. Check the condition of the hydraulic pump to the engine shaft connectors and spider. Replace or adjust, as required.
7. Touch up paint nicks and scratches to prevent rusting.
8. Remove the ignition key and store in a secure place.
9. Remove the battery and store it in a cool, dry area on wooden blocks or a wooden pallet. Charge it monthly to maintain an adequate charge.
10. It is best to store the machine inside and if that is not possible, cover with a waterproof tarp and tie down securely.
11. Inspect, clean, and lubricate the chain and sprockets on the rotating platform

8.3 REMOVING FROM STORAGE

When removing the machine from storage, follow this procedure:

1. Remove the tarp, if covered.
2. Install and connect the battery.
3. Review and follow the Pre-Operation Checklist.
4. Review and follow the Service Checks in the Maintenance section.

IMPORTANT

If the machine has been stored for more than twelve months, warm the engine by running it for two to three minutes and then drain the oil. Change the oil while the oil is warm to remove any condensation. Refer to the Engine Oil Change in the Maintenance section.

9. MAINTENANCE

MAINTENANCE SAFETY

- Good maintenance is your responsibility.
- Follow good shop practices.
  - Keep service area clean and dry.
  - Be sure electrical outlets and tools are properly grounded.
  - Use adequate light.
- Make sure there is plenty of ventilation. Never operate the engine in a closed building. Exhaust fumes may cause asphyxiation.
- Before working on this machine, shut OFF the engine, and remove the ignition keys.
- Never work under equipment unless it is securely blocked.
- Always use personal protection devices, such as eye, hand, and hearing protectors when performing any service or maintenance.
- Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to the original specifications. The manufacturer will not be responsible for injuries or damages caused by use of unapproved parts and/or accessories.
- A fire extinguisher and first aid kit should be readily accessible while performing maintenance on this equipment.
- Periodically tighten all bolts, nuts, and screws and check that all cotter pins are properly installed to ensure the unit is in safe operating condition.
- When completing a maintenance or service function, make sure all safety shields and devices are installed before placing the unit in service.
- Disconnect all electronic device cables from the seed tender before performing any arc welding repair. Damage from high currents may cause internal electronic device damage.

9.1 LUBRICATION

Use the Service Checks information in the Maintenance section to keep a record of all scheduled maintenance.

1. Use an SAE multi-purpose high temperature grease or a multi-purpose lithium base grease.
2. Use only a handheld grease gun for all greasing. An air-powered greasing system can damage the seals on the bearings and lead to early failures.
3. Wipe grease fitting with a clean cloth before greasing to avoid injecting dirt and grit.
4. Replace and repair broken fittings immediately.
5. If fittings will not take grease, remove and clean thoroughly. Also, clean lubricant passageway. Replace fitting, if necessary.

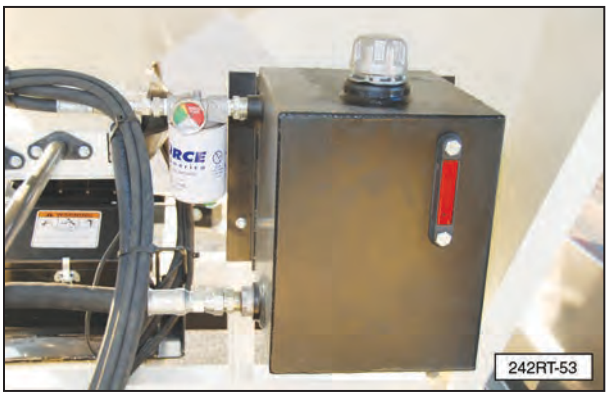
9.1.1 Grease Fitting Locations

Each axle is equipped with a grease zerk under the center dust cap of the wheel.

10. SERVICE PROCEDURES

10.1 HYDRAULIC SYSTEM

10.1.1 Hydraulic Oil Change



An oil and filter change is recommended annually or every 400 hours of operation using an AW HVI Hydraulic ISO 32 oil.

IMPORTANT

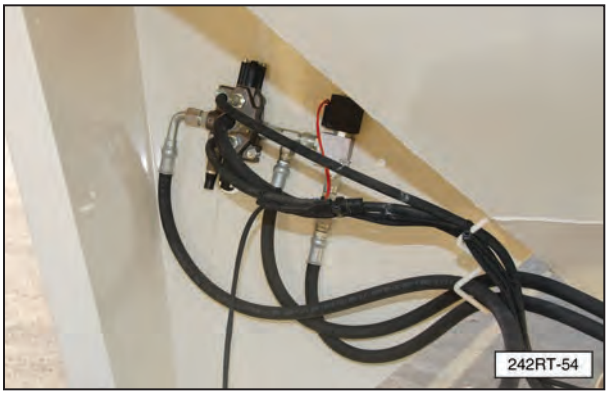
Never run the hydraulic pump unless the hydraulic oil tank is full (indicated in sight level gauge).

1. Place a large waste oil container under the inlet hose. The hydraulic tank holds approximately ten gallons of oil.
2. Drain the hydraulic tank by removing the inlet hose from the pump. Allow the tank to drain completely.
3. Remove and replace the oil filter. Apply a thin coat of oil to the rubber seal of the new oil filter. Hand-tighten only.
4. Reconnect the inlet hose to the pump.
5. Fill the tank to the fill line at the top of the gauge with approximately ten gallons of AW HVI Hydraulic ISO 32 oil. Replace the cap.
6. Start the engine and cycle all the cylinders several times.
7. Recheck the oil level in the tank and add, as needed.

10.1.2 Hydraulic Manifold

IMPORTANT

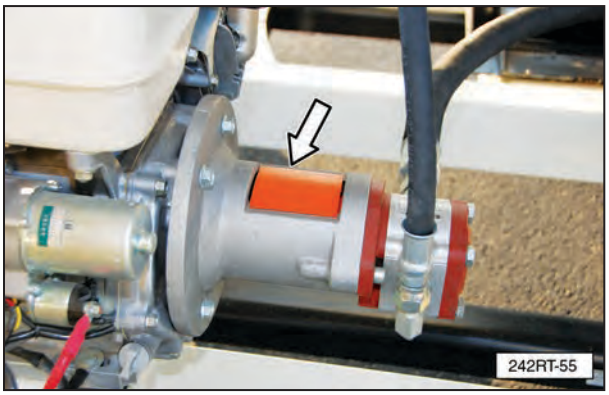
The manifold contains pressure relief valves and solenoids which have been factory installed and set up for the most efficient operation of the seed tender. **DO NOT** adjust these relief valves or replace the solenoid valves. If the unit is not operating properly, refer to the Troubleshooting section, call an authorized dealer, or call the factory.



10.1.3 Hydraulic Motor Coupling

Changing the pump coupling does not require the hydraulic tank to be drained. If the pump must be disconnected, drain the hydraulic tank and be prepared to catch any oil that remains in the two hydraulic hoses.

1. Remove the orange protective cover from the adapter assembly.



2. Remove the two pump mounting bolts.

3. Pull the pump away from the adapter to separate the coupling halves.

4. Loosen the setscrews in each coupling half and remove the old couplings.

5. Install new couplings on the engine shaft and the pump shaft. When completely assembled, the shaft length in each coupling half should be the same. Tighten the pump end setscrews to 78 to 87 lb-in. Do not tighten the engine shaft coupling at this time.

6. Place the urethane spider in the pump coupling. Align and install the pump and pump coupling.

7. Tighten the pump bolts to a “Grade 5” bolt torque for that size of bolt. Refer to the 4.2 Bolt Specifications section.

8. Slide the engine coupling against the other coupling half and tighten the setscrew.

9. Replace the orange protective cover.

NOTE: If the adapter plate was removed, tighten the four retaining bolts to “Grade 5” bolt torque for that size of bolt.

10.2 ENGINE

For any questions concerning the Honda® engine not provided in this manual, refer to the OEM manual that was provided with the seed tender.

To contact Honda®, refer to the OEM Literature section in this manual.

10.2.1 Approved Fuel

Use a regular unleaded automotive gasoline for all operating conditions. The fuel tank capacity is 1.0 liter (2.1 US pints).

10.2.2 Engine Oil

Use a typical SAE 10W-30 or 10W-40 multi-viscosity motor oil for normal operating conditions. Consult your engine manual for the recommended oil in cold temperatures. The crankcase capacity is 1.1 liters (1.16 US qt.).

10.2.3 Change Engine Oil

1. Review the Operator’s Manual for the engine.

2. Allow the engine to cool before changing the oil. Draining works best when the oil is warm.

⚠CAUTION

Burn Hazard. Hot engine oil can burn skin.

3. Be sure the engine key switch is in the OFF position and the fuel valve is turned OFF.

4. Place a pan under the drain plug.

5. Remove the drain plug and allow the oil to drain for ten minutes.

6. Reinstall the engine drain plug and tighten.

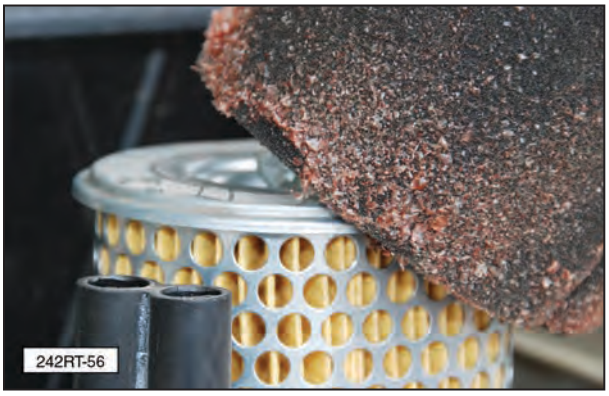
7. Dispose of the oil in an approved container. Follow industrial disposal regulations.

8. Fill the engine with SAE 10W-30 oil for general usage. If the engine is operated in more extreme conditions, refer to the OEM manual for oil recommendations.

9. Run the engine for one minute and recheck the oil level. Add oil, as needed.

10.2.4 Clean Air Cleaner

Check and remove any debris from the foam cover of the air cleaner daily before each usage. Thoroughly clean or replace the foam cover every three months or 50 hours of operation (clean it more frequently when used in dusty conditions).



10.3 BELT DELIVERY TUBE

10.3.1 Unplugging

IMPORTANT

Do not operate the conveyor when it is plugged with excess seed or is hindered from moving by a foreign object. Continued operation can cause damage to the conveyor or result in a broken conveyor belt.

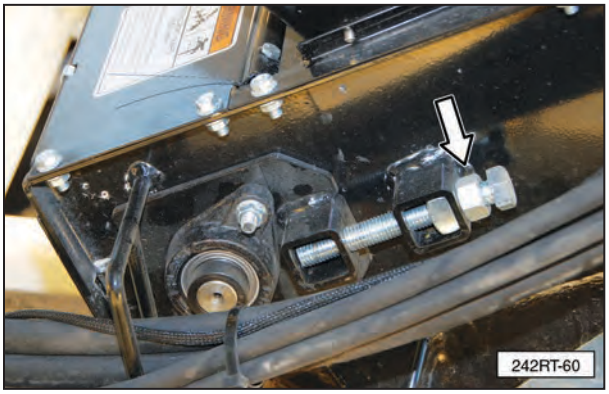
If the conveyor becomes plugged, follow this procedure:

1. Position the conveyor with easy access to both ends.
2. Stop the engine and remove the ignition key. Place a lock-out tag on the control box to prevent accidental starting of the conveyor.
3. Open the lower access door at the bottom of the conveyor and remove any excess seed or obstruction.

4. Close and secure the lower access door.
5. Also check the delivery hood for blockage and remove any obstructions.

6. In some extreme case it may be necessary to remove the galvanized belt guards and/or the belt itself.

10.3.2 Belt Tension Adjustment

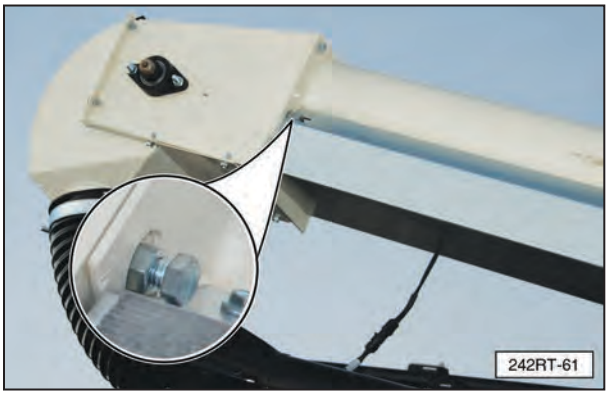


1. Loosen the locknut on each side of the belt tension mechanism.
2. Tighten the two adjusting bolts equally to 23 ft-lbs. While holding the adjusting bolt in place, retighten both locking nuts.
3. Start the conveyor and make sure the belt is tracking in the center of the drive drum. If the belt is not tracking properly, use the Belt Tracking Adjustment procedure to correct the problem.

IMPORTANT

The drive drum at the bottom of the conveyor must be square (drive shaft must be equal distance from end of unit) for the belt to track properly.

10.3.3 Belt Tracking Adjustment

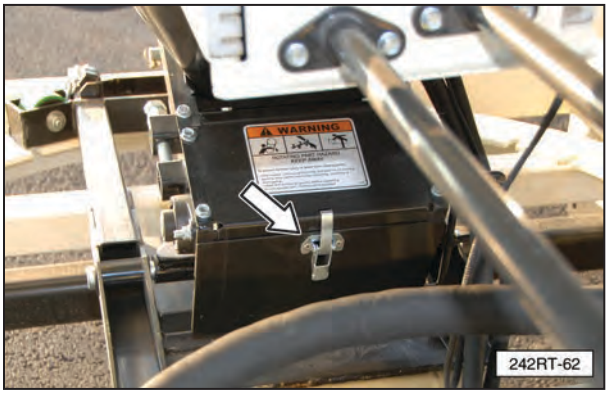


1. Loosen the locking nuts on the two adjusting bolts.
2. Tighten or loosen the bolts on either side of the discharge hood to correct the tracking problem.
3. Using a wrench, hold the adjusting bolt in place while tightening the locking nut against the housing. Repeat this procedure for the other adjusting bolt.
4. Start the conveyor and make sure the belt is tracking in the center of the drive drum. Readjust, if needed.

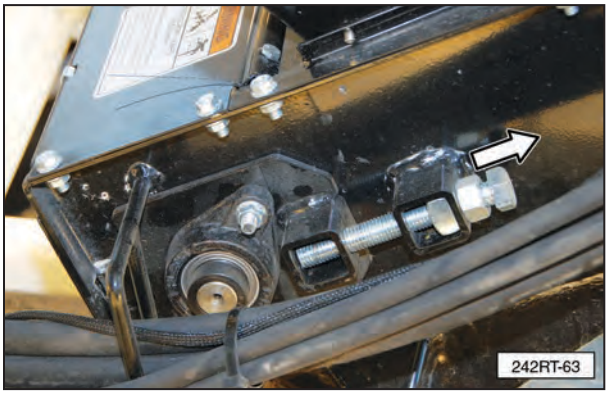
10.3.4 Belt Replacement

If the belt is unbroken, it may be possible to use the old belt to thread the new belt into the delivery tube.

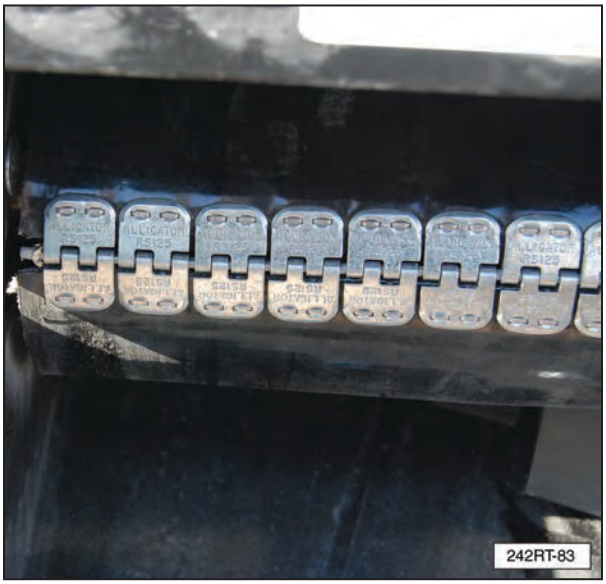
1. Position the conveyor with easy access to both ends.
2. Open the clean out door.



3. Position the lower roller adjusting bolts to their loosest position.



4. If the old belt can be used to install the new belt continue with this step; if not, continue to Step 5.
   a. Disconnect the two ends of the conveyor belt. Attach the replacement belt to the end of the old conveyor belt.



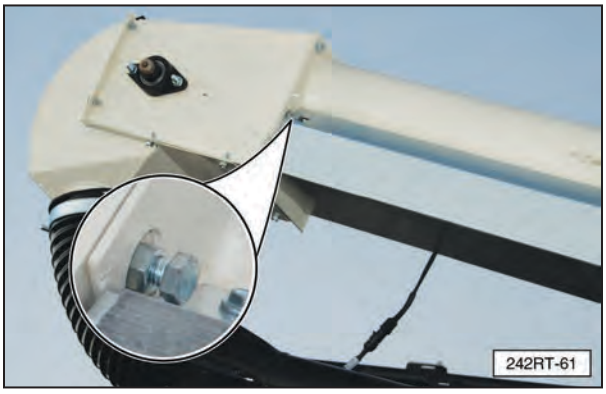
   b. Slowly pull the old belt out of the delivery tube and thread the new one into position.
   c. Disconnect the old belt and connect the ends of the new belt together.

5. If the old belt cannot be used:

   a. Remove the discharge hood and lower the galvanized belt guards.

   b. Install the new belt and connect the two ends together.

6. Tighten the two drive drum adjusting bolts equally to 23 ft-lbs. While holding the adjusting bolt in place, retighten both locking nuts.



7. Start the conveyor to make sure the belt is tracking properly. If the belt is not tracking properly, use the Belt Tracking Adjustment procedure to correct the problem.

8. Recheck the tension and alignment of the belt frequently during the first ten hours of operation and adjust, as needed.

NOTE: Then, resume regular maintenance. Typically, a belt will seat itself during the first ten hours of operation and then require less or no adjustment.

10.4 TRAILER BREAK-AWAY SYSTEM

10.4.1 Testing the Battery

1. Disconnect the trailer plug from the tow vehicle; otherwise, you are testing the tow vehicle's battery.

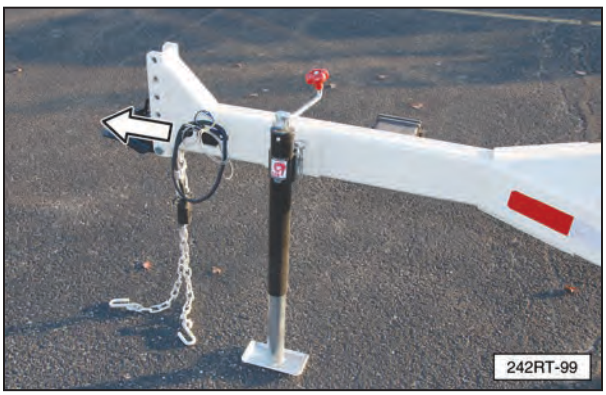
2. Press the green TEST button on the control box located inside the frame of the trailer. The green indicator light should illuminate if the battery is fully charged. If the yellow or red indicator lights illuminate, the unit's battery should be charged before towing the trailer.

IMPORTANT

If the battery is weak or dead (red indicator, even after charging), as indicated by the indicator light, the battery must be replaced.

3. Plug the trailer into the tow vehicle. The yellow "Charging" light should be ON.

4. Test the system by pulling the pin out of the break-away switch. The battery will activate the brakes. (**Note**: Do not use this kit as a parking brake). The battery should be charged and tested prior to each trailer outing.



10.4.2 Changing Battery

The battery in the break-away system is rechargeable, but not replaceable. If the battery will not hold a charge, replace the unit.

10.5 WHEEL BOLT TORQUE REQUIREMENTS

1. Initially check the wheel bolt torque at 10, 25, and 50 miles and after each wheel removal. Refer to the Wheel Bolt Torque Requirements section in this manual for tightening instructions.

NOTE: Torque wrenches are the best method to ensure the proper amount of torque is being applied to a wheel nut.

⚠CAUTION

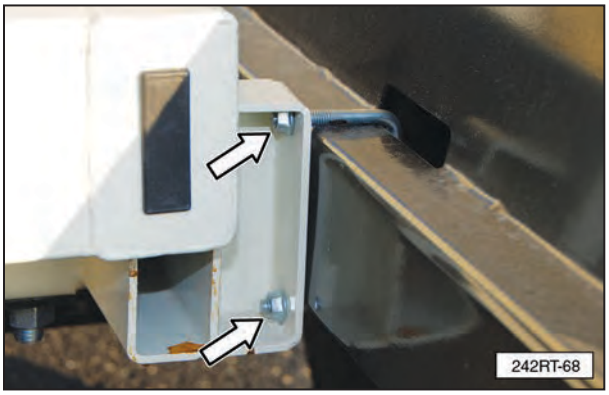
To prevent injury due to possible dangerous separation of wheels from the axle, the wheel nuts must be maintained at the proper torque levels. Properly maintained wheel nuts prevent loose wheels and broken studs.

2. Tighten the wheel nuts in three stages.
   — First stage: 20 to 25 foot pounds.
   — Second stage: 50 to 60 foot pounds.
   — Third stage: 90 to 120 foot pounds.

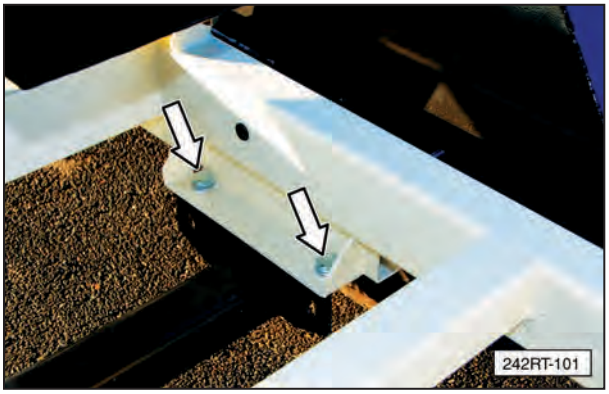
3. Tighten the wheel nuts in a clockwise, cross-axle alternating pattern.

10.6 FENDER AND AXLE HOLD-DOWN BOLTS

Check the torque on the fender hold-down bolts at least once per year. Tighten the bolts to 40 ft-lbs.



Check torque or axle mounting bolts. Tighten bolts to 290 ft-lbs..



10.7 SERVICE RECORD CHART

The chart on the following page should be copied and filled out as maintenance is performed on the machine. Refer to the Lubrication, Maintenance, and Service sections for additional instructions.

10.7 SERVICE RECORD CHART (CONTINUED)

Date														
Serviced by														
8 hours or daily														
Check Engine Fluid Levels														
Check Hydraulic Tank Oil Level														
Test Break-Away Brake System														
Inspect Tires														
Check Remote Control Battery Life														
Check Oil Filter Indicator														
Check Conveyor Belt Tension and Alignment														
50 Hours or Weekly														
Clean Engine Air Intake Filter														
Check Tire Pressure														
Check Conveyor Belt Tension and Alignment														
Clean wireless remote control regularly with a damp cloth and mild detergent.														
200 Hours or SEMI/ANNUAL														
Adjust Brakes														
Inspect Brake Magnets														
400 hours or annually														
Change Engine Oil														
Check Wheel Bolt Torque														
Check Frame and Trailer Hold-Downs														
Check Hydraulic Motor Coupling														
Check Turntable Nylon Slide Blocks														
Check Load Cells														
Inspect Brake Lining Wear, Brake Cylinder, and Brake Wiring														
Grease Wheel Bearings and Check Hub for Wear														
Inspect Axle Grease Seal														
Inspect Springs for Wear														
Inspect transmitter electrical wiring for wear points or other damage. Repair, as required.														
Inspect all electrical wiring connections for looseness or corrosion. Tighten and/or seal, as necessary.														
Thoroughly Clean Machine														

10.8 SERVICE CHECKS

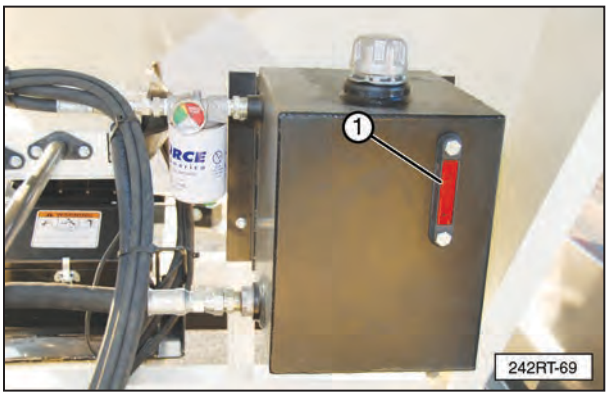
10.8.1 Daily (8 Hours)

1. Check engine oil level and fill, as needed.

⚠ WARNING

Gasoline is a highly combustible fuel. Improper use, handling, or storage of gasoline can be dangerous. Never touch or fill a hot engine. DO NOT fill the engine's fuel tank near an open flame while smoking or while engine is running. DO NOT fill tank in an enclosed area with poor ventilation. Wipe up spills immediately.

2. Check engine fuel level and fill, as needed.
3. Check hydraulic fluid level (1) and fill, as needed.

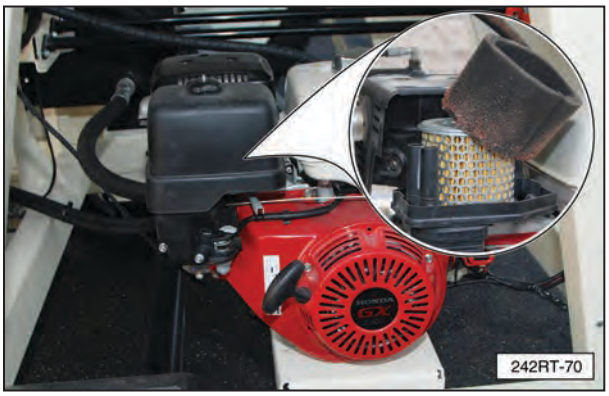


4. Check filter life indicator (2). Change the filter if the indicator needle is in the yellow or red area.

5. Test trailer break-away system. Refer to the section in this manual.
6. Initially check wheel bolt torque at 10, 25, and 50 miles. Refer to Wheel Bolt Torque Requirements section in this manual for tightening instructions.
7. Check wireless remote control battery life and change them, if needed. Refer to the section in this manual for additional information.
8. Check delivery belt for proper tension and tracking. Refer to sections on adjusting the belt in this manual.

10.8.2 Weekly (50 Hours)

1. Change engine oil.
2. Clean or replace the foam filter element. Replace the paper air filter, as required.



3. Check the tension on the delivery belt. Adjust tension if needed. Refer to the section in this manual for instructions.
4. Check the tire pressure. Inflate the tires to the recommended pressure stated on the tire.

10.8.3 Annually (400 Hours)

1. Check wheel bolt torque. Refer to Wheel Bolt Torque Requirements section in this manual for tightening instructions.
2. Check fender hold-down bolts.
3. Check hydraulic motor to engine shaft coupling and spider. Refer to the Changing Hydraulic Motor Coupling section for instructions.
4. Check turntable rollers.
5. Thoroughly clean the seed tender.
6. Check the tires for wear, and replace if needed.

10.9 AXLE MAINTENANCE

10.9.1 First 200 Miles

1. Adjust brakes. Refer to OEM manual for procedure.

10.9.2 3,000 Miles or 3 Months

1. Adjust brakes. Refer to OEM manual for procedure.
2. Check torque on wheel nuts. Refer to the section in this manual.
3. Inspect tires for wear. Refer to OEM manual for procedure.

10.9.3 6,000 Miles or 6 Months

1. Inspect brake magnets for wear. Refer to OEM manual for procedure.
2. Inspect suspension parts for wear. Refer to OEM manual for procedure.

10.9.4 12,000 Miles or 12 Months

1. Inspect brake lining wear, check brake cylinder for leaks, and inspect brake wiring for damage. Refer to OEM manual for procedure.
2. Grease the wheel bearings and check the hub for wear. Refer to OEM manual for procedure.
3. Inspect grease seal for leakage. Refer to OEM manual for procedure.
4. Inspect springs for any wear or loss of arch. Refer to OEM manual for procedure.

10.10 TIRES

Check the tires for normal and/or abnormal tire wear. Replace tires that are damaged or worn beyond normal tread life. Refer to the axle OEM manual for a Tire Wear Diagnostic Chart.

Replace the tires with Meridian part number 18131 or an equivalent tire:
3T235/80R16
TR643
Load Range E
For Trailer Service Only

10.11 WELDING REPAIRS

Repair welding must be done with care and with procedures that may be beyond the capabilities of the ordinary welder. Before performing any type of welding repair to the seed tender, contact Meridian for approval.

⚠ WARNING

Personal Injury Hazard. Repairs or modifications to the trailer, trailer tongue, or trailer hitch can result in serious injury or death should these repairs fail.

IMPORTANT NOTICE

Anyone performing a welding repair should be certified in accordance to the American Welding Society (AWS) standards.

11. OEM LITERATURE

OEM literature can be stored on the seed tender using the document storage tube.

11.1 HONDA® ENGINE

For any questions concerning the Honda® engine, refer to the OEM manual that was provided with the seed tender.

Additional information can be obtained from:

United States Power Equipment Division
Customer Relations Office
4900 Marconi Drive
Alpharetta, GA 30005-8847
(770) 497-6400

Honda® Canada, Inc.
715 Milner Avenue
Toronto, ON M1B 2K8
(888) 946-6329

11.2 RETRACTABLE COMPARTMENT TARP

For any questions concerning the Agri-Cover, refer to the OEM manual that was provided with the seed tender.

Three decals are also provided showing the correct operation and maintenance for the tarp. Attaching these decals is the responsibility of the purchaser.

Additional information can be obtained from:
ACI Agri-Cover
PO Box 508
Jamestown, ND 58402

Phone: (866) 414-5422
Fax: (701) 251-1512
customerrelations@agricover.com

11.3 AXLE

For any questions concerning the Axis Products axle, refer to the OEM manual that was provided with the seed tender. An Owner's Manual and parts listing is provided with the seed tender.

Additional information can be obtained from:
Axis Products, Inc.
3403 Reedy Drive
Elkhart, IN 46514
Phone: (574) 266-8282

12. TROUBLESHOOTING

12.1 TROUBLESHOOTING CHART

PROBLEM	CAUSE	SOLUTION
Engine will not start.	No fuel.	Fill the fuel tank.
	Low engine oil.	Fill the crankcase with oil.
	Cold engine.	Open choke.
	Ignition key switch off.	Turn ignition key switch on.
	Battery dead.	Recharge or replace battery.
	Engine problem.	Refer to engine manual.
Conveyor belt will not start.	No power.	Start engine and increase speed above 1400 RPM.
	Drive motor coupling.	Repair or replace coupling.
	Belt tension.	Increase belt tension.
	No hydraulic oil.	Check oil level.
Electrical or hydraulic functions are not working properly.	Battery cable or battery.	Check battery cable and make sure battery is fully charged.
	Hydraulic valve or motor.	Ensure hydraulic pump is working properly and hydraulic tank is filled with oil.
	Intermittent function.	Loose connector at the valve coil.

13. WARRANTY

13.1 WARRANTY STATEMENT

Limited Materials and Workmanship Warranty
For Bulk Seed Tenders

Meridian Manufacturing Group (hereinafter referred to as the Manufacturer) hereby warrants the Bulk Seed Tender(s) sold by it to be free from any defect in material or workmanship under normal use and service for a period of one (1) year from the date of shipment. The Manufacturer's obligation under this warranty shall be limited to the repair or replacement only, FOB the original point of shipment, of any defective parts or portions of the seed tender or accessories manufactured by Meridian. Any warranty claim must be reported to the Manufacturer within one (1) year from the date of shipment.

THIS WARRANTY IS SUBJECT TO THE FOLLOWING LIMITATIONS, PROVISIONS AND CONDITIONS:

1. This warranty does not apply:
   a) To any product sold by the Manufacturer where it is used in areas exposed to corrosive or aggressive conditions including salt water, acids, alkaloid, ash, cement dust, animal waste or other corrosive chemicals from either inside or outside the bin.
   b) For failures or defects arising out of damage during shipment or during storage on site.
   c) To materials replaced or repaired under this warranty except to the extent of the remainder of the applicable warranty.
   d) To damage resulting from misuse, negligence, accident or improper site preparation by others.
   e) If the product has been altered or modified by others.
   f) If in the case of coating failures the failure is the result of damage, lack of proper maintenance or failure to remove road salt or other contaminants that may have come in contact with the bin surface.
   g) To loss of time, inconvenience, loss of material, down time or any other consequential damage.
   h) For a function that is different than original designed intent.

2. The obligation of the Manufacturer under this warranty shall not arise unless the Manufacturer is notified and this warranty is presented together with a written statement specifying the claim or defect within thirty (30) days after the failure is first detected or made known to the owner and within one (1) year from the shipment date. The Manufacturer in its sole discretion shall determine if the claim is valid and whether correction of the defect or failure shall be made by repair or replacement of the materials.

3. The coating warranty is based on the manufacturer's performance specification for Polyester Powder finishes and does not include repair of minor blemishes or rusting that is normally part of the general maintenance of the seed tender. This warranty does not cover excessive wear on interior coatings. See attachment for full Performance Specification details on Polyester Powder Finishes.

4. The obligation of the Manufacturer hereunder extends only to the original owner and to the Meridian dealer to whom the materials may have been initially sold. This warranty shall not be subject to any assignment or transfer without the written consent of the Manufacturer.

5. The customer shall acknowledge that it has made its own independent decision to approve the use of the supplied materials and also the specific fabrication and construction procedures utilized to complete the seed tender, and has satisfied itself as to the suitability of these products for this particular application.

6. The foregoing sets forth the only warranties applicable to said materials and said warranties are given expressly and in lieu of all other warranties, expressed or implied, statutory or otherwise, of merchantability or fitness for a particular purpose and all warranties which exceed or differ from said warranties herein are disclaimed by the Manufacturer.

7. The owners sole and exclusive remedy against the Manufacturer shall be limited to the applicable warranty set forth herein and the endorsements, if any, issued together with this document and no other remedy (including but not limited to the recovery of assembly or disassembly costs, shipping costs, direct, incidental, special, indirect or consequential damages for lost profits, lost sales, injury to person or property or any other loss, whether arising from breach of contract, breach of warranty, tort, including negligence, strict liability or otherwise) shall be available to the owner or Meridian Dealer or any other person or entitles whether by direct action or for contribution or indemnity or otherwise.

8. The financial obligation of the Manufacturer under this warranty shall be limited to the repair or replacement of the product as originally supplied and in no event shall exceed the original cost of the product supplied.

9. The Manufacturer shall not have any obligation under any warranty herein until all accounts for materials, installation and erection of the said product thereof and for labor and other work performed by the Manufacturer or its dealers have been paid in full by the owner.

Warranty Claim Procedure

1. Registering product with Meridian Manufacturing.
2. Contact the dealer unit was purchased from upon discovery of any defects.
3. A completed warranty claim form submitted by dealer to Meridian warranty representative for review and course of action.
4. Warranty repair work will only be performed by Meridian, the dealer or an approved representative. No warranty work completed prior to approval. Failure to follow procedure may affect any or all reimbursement.
5. Claims will be adjudicated at the sole discretion of the manufacturer and in accordance with the terms and conditions of the applicable limited warranty.
6. A complete list of warranty procedures can be procured from the Warranty Department or found in your owner's manual.

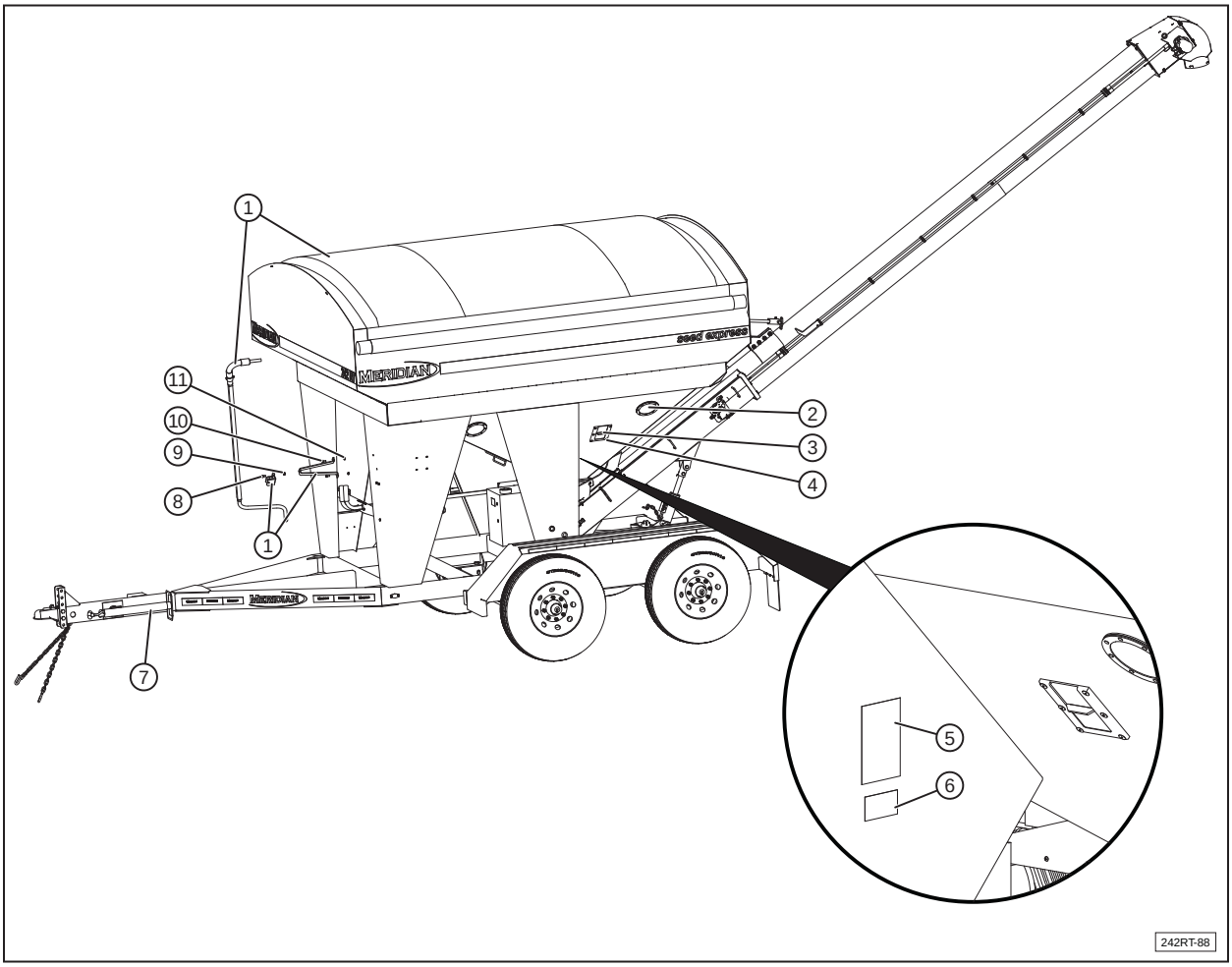
Effective July 1, 2009

14. PARTS

The following pages contain a list of serviceable parts for the 242RT Seed Express unit.

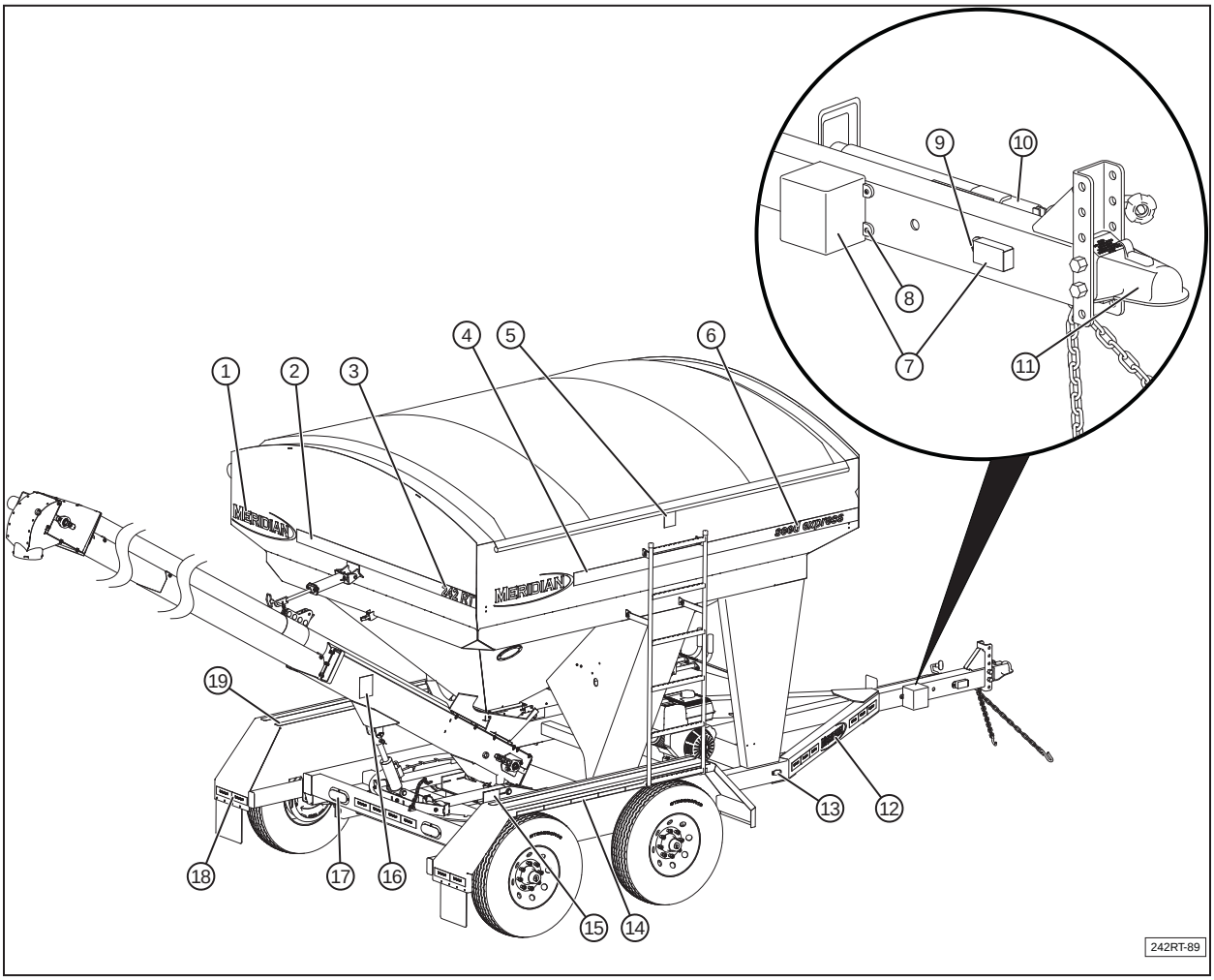
Parts are available from your authorized Dealer Parts Department.

14.1 242RT SEED TENDER TARP KIT AND VIEW WINDOW



1	1	19984	Tarp Kit
2	4	47008	View Glass, S.S. Ring Assm.
3	2	36150	Sample Gate
4	12	19129	Rivet, 3/16” x 1/2”
5	1	19944	Decal, Warranty Notice
6	1	19984	Decal, Serial Number
7	1	18120	Stroke, 5K, 15”, Top Wind Jack
8	1	19541	Bolt, Hex, 3/8-16 x 3/4”, Stainless Steel
9	5	19347	Locknut, Nylon, 3/8”-16
10	2	19568	Bolt, Hex, Flanged, 5/16-18 x 3/4”
11	5	19318	Nut, Hex, Flanged, 5/16-18

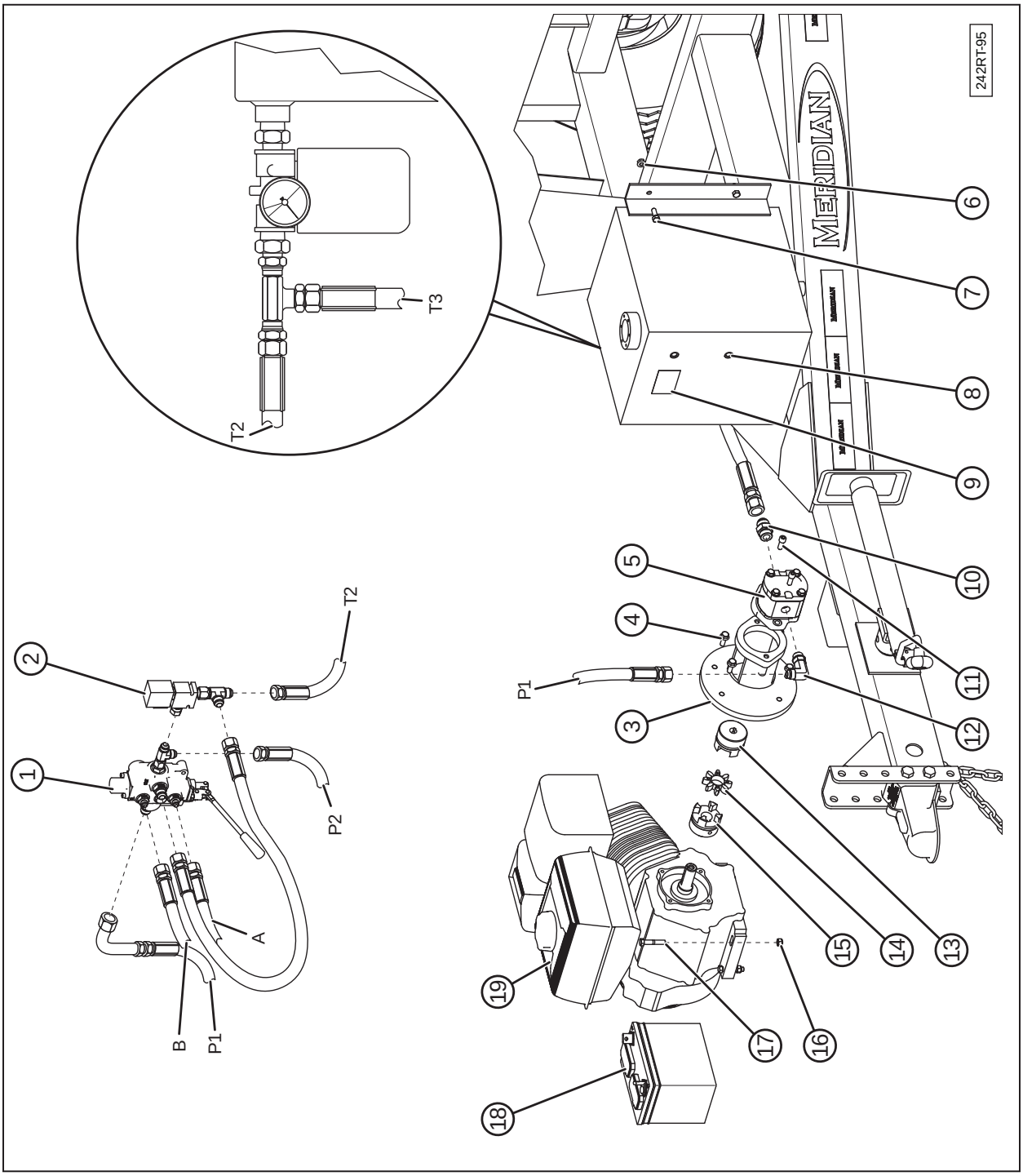
14.2 242RT SEED TENDER DECALS, HITCH AND LIGHTS



1	4	20081	Decal, Meridian, 25” x 6-1/2”
2	2	19751	Decal, Gradient, 75” x 3-1/4”
3	2	18453	Decal, 242RT
4	2	19750	Decal, Gradient, 98” x 3-1/4”
5	1	19939	Decal, Falling Hazard
6	2	19758	Decal, Seed Express
7	1	19275	Battery Breakaway, BA10-150
8	4	19779	Screw, Zinc, Self Drilling, #8-18 x 3/4”
9	1	19597	Screw, Hex Washer Head, Self Drilling, 1/4”-14 x 3/4”
10	1	18120	Stroke, 5K, 15”, Top Wind Jack
11	1	19298	Hitch Coupler, Adjustable, 2-5/16”
12	2	20082	Decal, Meridian
13	2	18151	Light, Amber, Clearance
14	2	18153	Tape, Reflective DOT, 1”
15	2	20087	Decal, Pinch Point Hand
16	1	19934	Decal, Caution Read Manual
17	2	18117	Tail Light With 10 Diodes, LED STL-78RB
18	12	18096	Tape, Reflective, Meridian, 2” x 6” x 6”
19	4	18118	Tape, Anti-Slip

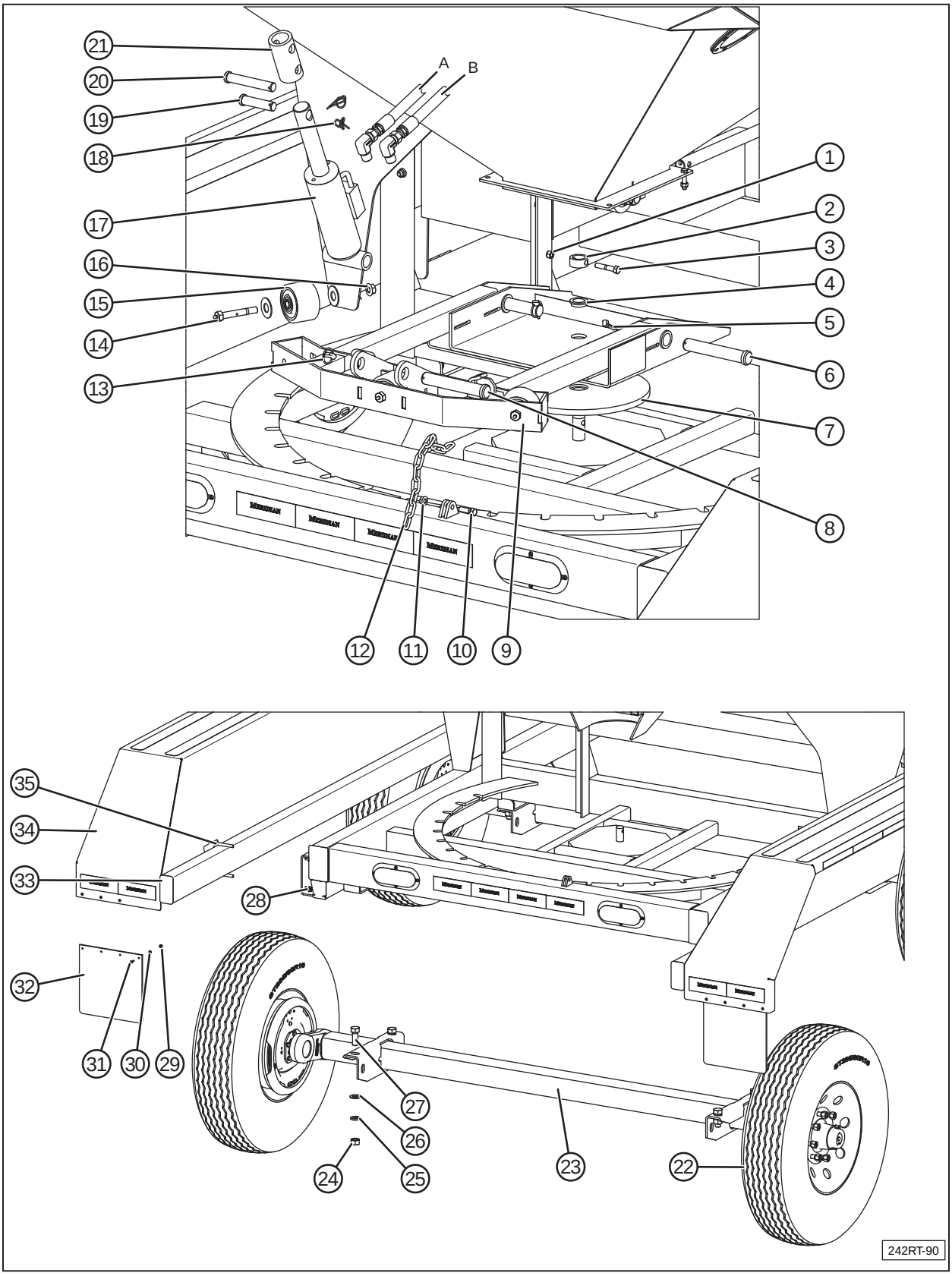
NOTES

14.3 242RT HYDRAULICS



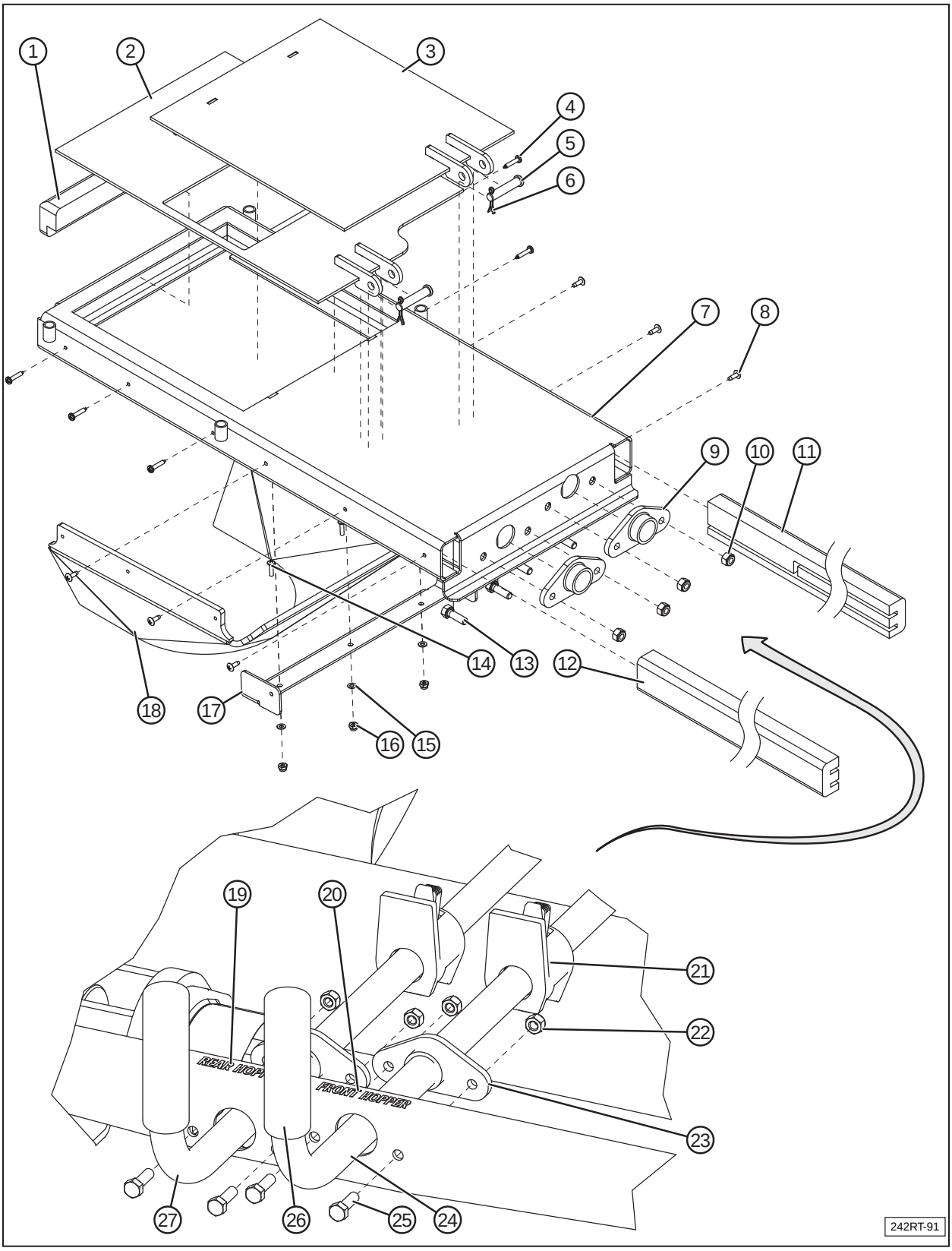
1	1	18293	Monoblock Valve Section (VDM6-4-YE-HP-2500)
2	1	18295	Solenoid, On/Off with Block (CPN-8)
3	1	19289	Adapter, Hyd Tee 3/4”-16 Female SAE 37 Deg Bulkhead, 3/4”-16 Male SAE 37 Deg 3/4”-16 Male SAE 37 Deg
4	4	19569	Bolt, Hex, Flanged, 3/8-16 x 1”
5	1	19295	Pump, Hydraulic
6	9	19564	Nut, Hex, Flanged, 3/8-16
7	4	19325	Bolt, Hex, 3/8-16 x 1”
8	1	19294	Oil Tank, 10 Gallon - Hydraulic Package
9	1	20088	Decal, Warning Hot Surface
10	1	18285	Adapter, Hyd 1-1/16”-12 Male SAE O-Ring Boss to 1-1/16”-12 Male SAE 37 Deg
11	2	18577	Hex Socket Head Cap Screw
12	1	18292	Adapter, Hyd Elbow 7/8”-14 Male SAE O-Ring Boss (Long) to 7/8”-14 Male SAE 37 Deg
13	1	19248	Coupling, Pump with 5/8 x 5/32” Keyway
14	1	19290	Spider, Coupling
15	1	19247	Coupling, Engine with 3/16 x 3/32” Keyway
16	6	19347	Locknut, Nylon, 3/8”-16
17	4	19328	Bolt, Hex, 3/8-16 x 2
18	1	21286-00	Battery, SP-30
19	1	21270	Honda GX340

14.4 242RT CONVEYOR SWIVEL, FENDER, AND AXLE



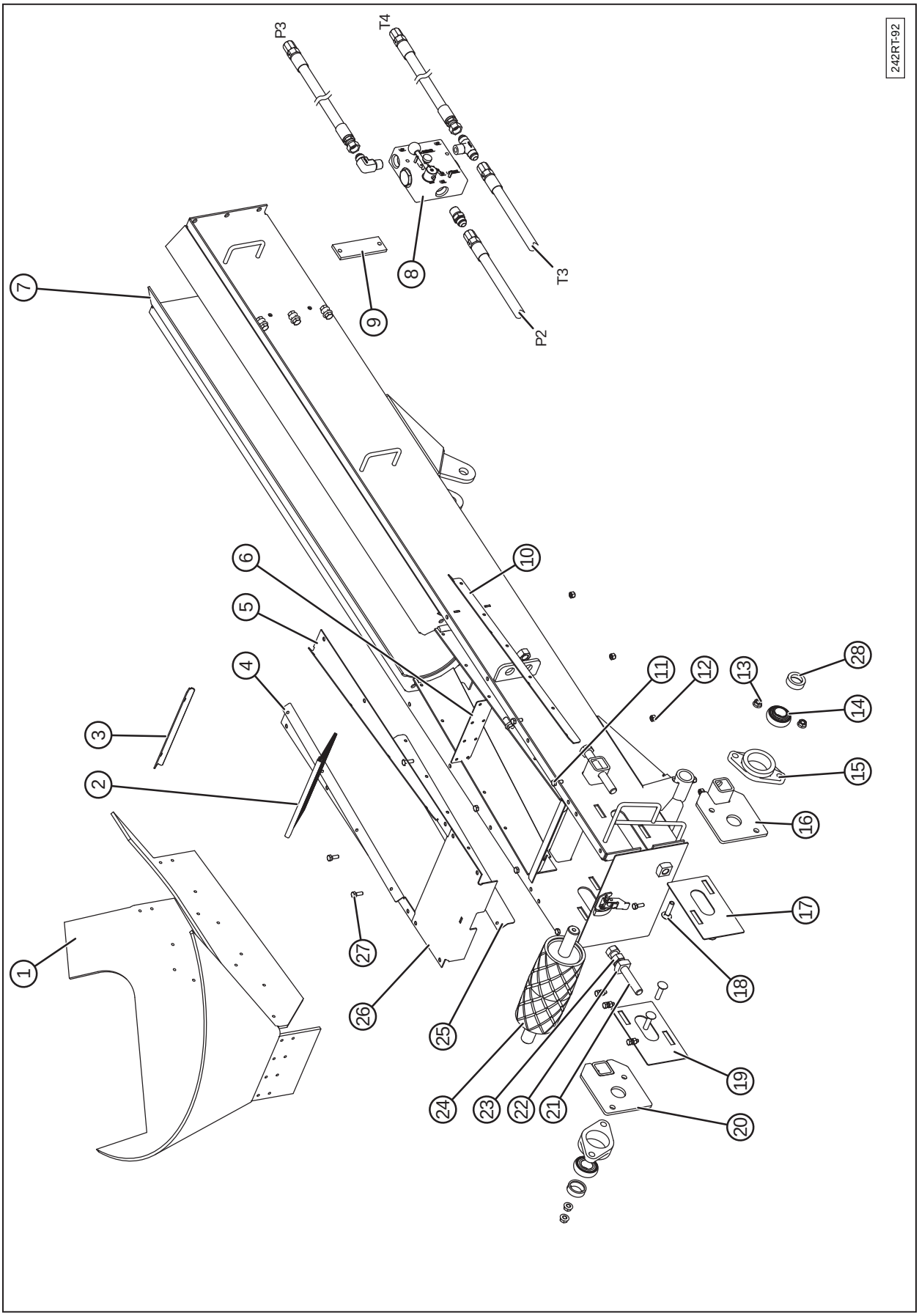
1	6	19347	Locknut, Nylon, 3/8-16
2	1	29869	Collar
3	1	19243	Bolt, Hex, 3/8-16 x 2”, Grade 8
4	1	19405	Bushing
5	3	19794	Lynch Pin, 3/16 x 1”
6	3	19774	Pin, Clevis, 1” x 5-45/64” Effective Length
7	1	29875	Wear Disc
8	3	19774	Pin, Clevis, 1” x 5-45/64” Effective Length
9	1	31507	Turret Assembly 2011, Manual
10	1	19326	Bolt, Hex, 3/8-16 x 1-1/4” Steel, Mild
11	1	19564	Nut, Hex, Flanged, 3/8-16
12	1	19255	16” of 1/4” Chain
13	3	19794	Lynch Pin, 3/16 x 1”
14	3	18451	Wheel Axle, 1/2” Dia x 3-3/8”, Greased
15	3	18448	Roller, Polyurethane, 3-1/4” x 2”
16	3	19595	Nut, Hex, Flanged, 1/2-13
17	1	19150	Lift Cylinder
18	2	19785	Cotter Pin, Lock, Ringed, 0.080” for 3/4” Shaft
19	1	19776	Clevis Pin, 3/4” x 2-33/64” Effective Length
20	1	19777	Clevis Pin, 3/4” x 3-49/64” Effective Length
21	1	20526	Tube Extension
22	4	18131	Tire, ST235/80R16
23	2	18678	Axle, 7000 Lbs (2012 Tender Models)
24	8	19394	Nut, Hex, Steel, Mild, 3/4-10
25	8	19396	Washer, Spring Lock, Helical Steel, Mild, 3/4
26	8	18097	Washer, Narrow, Type A Steel, Mild, 3/4
27	3	19388	Bolt, Hex, 3/4-10 x 2”
28	8	19110	Nut, Hex, Flanged, Steel, Mild, Serrated 3/8-16
29	8	19112	Nut, Hex, Nylon, #8-32
30	8	19629	Washer, Flat, 5/32”
31	8	19141	Screw, Round Head, Pan, #8-32 x 5/8
32	2	19274	Mud Flap
33	4	18248	Tube Plug, 4” x 2”
34	2	31509	Fender Bolt On Tandem
35	4	18427	U Bolt, 4” x 2” x 3/8”

14.5 242RT COMPARTMENT SLIDE GATE VALVES



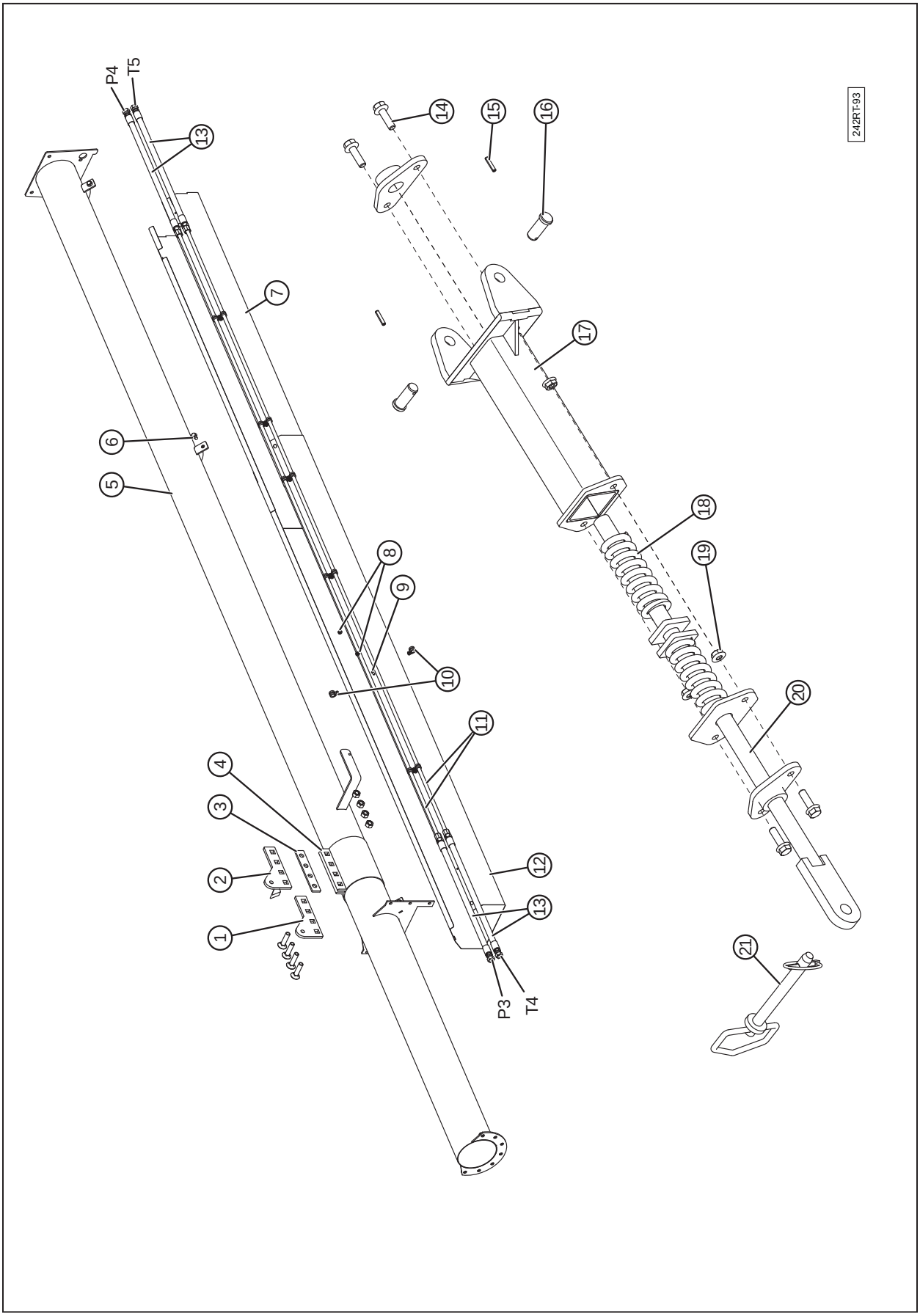
1	1	23606-00	UHMW Gate Guide (End)
2	1	26336	Weldment, Bottom Gate
3	1	26337	Weldment, Top Gate
4	15	19779	Screw, Self Drilling, Zinc, #8-18 x 3/4”
5	2	18361	Clevis Pin, 3/8” x 1-3/4” (1-33/64” Effective Length)
6	2	19795	Pin, Cotter, Extended Prong Square Cut Type, 1/8” x 1”
7	1	26334	Weldment, Gate Housing
8	6	19699	Screw, Self Drilling, No. 8 - 32 x 1/2”
9	2	19404	Bushing, Nylon, 1”
10	8	19586	Locknut, Nylon, 5/16-18
11	1	26341	UHMW Gate Guide (Left)
12	1	26340	UHMW Gate Guide (Right)
13	4	19310	Bolt, Hex, 5/16-18 x 1” Steel, Mild
14	8	19141	Screw, Round Head Pan, #8-32 x 5/8”
15	8	19629	Washer, Flat, 5/32”
16	8	19112	Nut, Hex, Nylon, #8-32
17	1	25332	Retainer, Gate Boot Skirt
18	1	23725-01	Gate Boot Skirt
19	1	26085-00	Decal, Rear Hopper
20	1	26084-00	Decal, Front Hopper
21	2	17996	Assembly, Tail Stop
22	8	19586	Locknut, Nylon, 5/16”-18
23	2	19404	Bushing, Nylon, 1”
24	1	26343	Handle, Slide Gate, Right
25	4	19310	Bolt, Hex, 5/16-18 x 1 Steel, Mild
26	2	19447	Handle Grip
27	1	26342	Handle, Slide Gate, Left

14.6 242RT CONVEYOR - LOWER END



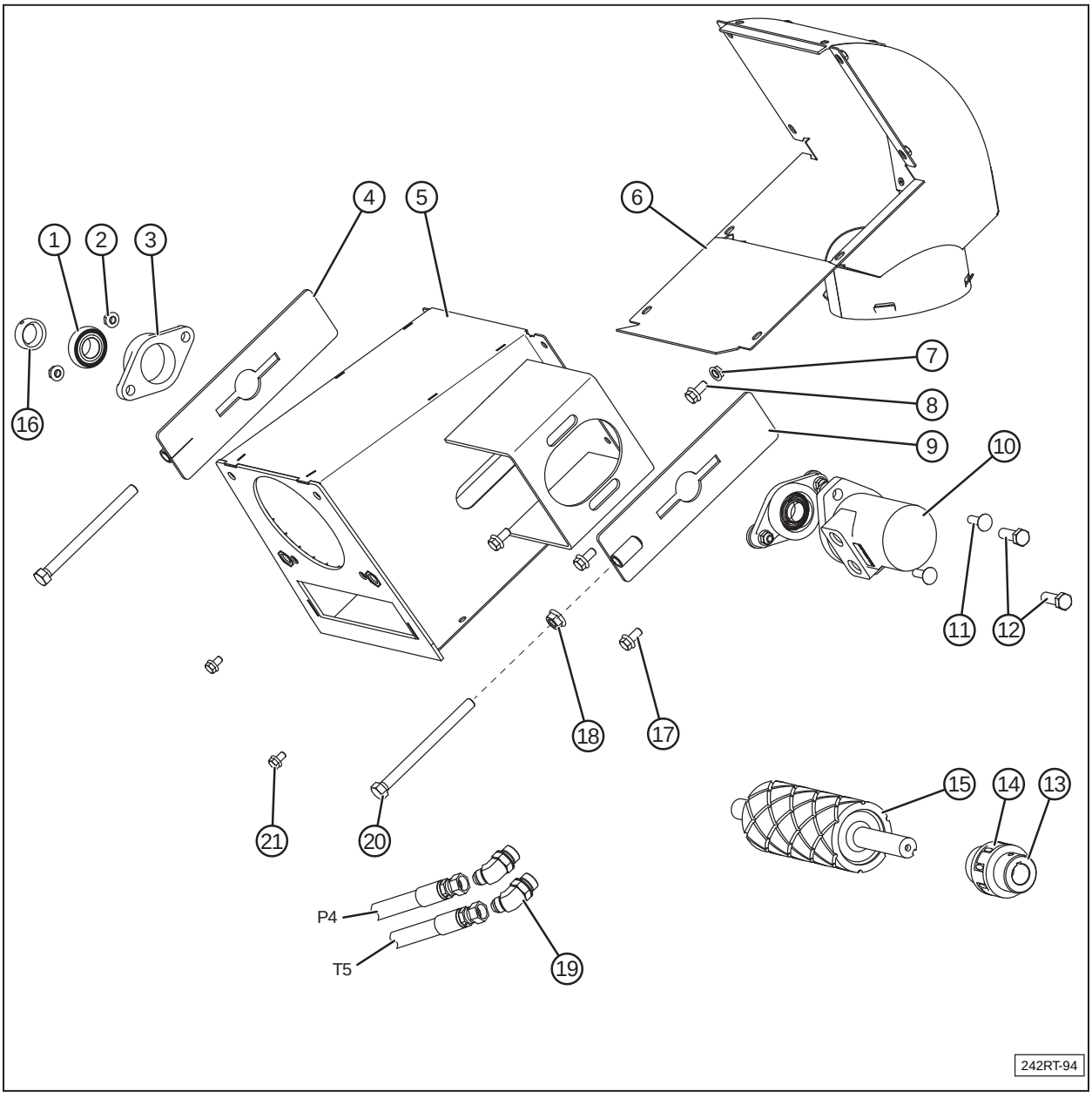
1	1	29393	Conveyor Boot, 6”
2	1	27051-00	Brush
3	1	27009-00	Clamp, Brush Holder
4	1	23336-00	Plate, Left Cap
5	1	23337-00	Plate, Right Cap
6	1	23338-00	Plate, End Skirt Retain
7	1	23324-00	Assembly, Conveyor Pan
8	1	18294	Valve, Flow Control
9	1	26420	Plate, Spacer Flow Control 242
10	1	29401	Plate, Left Side Skirt Retain
11	2	19560	Bolt, Hex, 1/4-20 x 3/4”
12	12	19128	Nut, Hex, Nylon, 1/4-20
13	9	19564	Nut, Hex, Flanged, 3/8-16
14	2	21258-00	Bearing
15	2	27040-00	Housing, Roller Bearing
16	2	23687-00	Weldment, Roller Slide Plate
17	2	23341-00	Plate, Roller Cover
18	4	19335	Bolt, Carriage, 3/8”-16 x 1-1/2”
19	2	23341-00	Plate, Roller Cover
20	2	23687-00	Weldment, Roller Slide Plate
21	2	19380	Bolt, Hex, 5/8”-11 x 4-1/2”
22	2	19663	Nut, Square, 5/8-11
23	2	19382	Nut, Hex, 5/8-11
24	1	36201-02	Assembly, Idler Roller
25	1	29400	Plate, Skirt Retain, Right Side
26	1	23335-00	Plate, Brush Holder
27	1	19560	Bolt, Hex, 1/4-20 x 3/4”
28	2	212588-00 C	Collar, Bearing

14.7 242RT CONVEYOR TUBE AND DAMPENER ASSEMBLY



1	1	29376	Plate, Dampener Pin
2	1	29377	Plate, Dampener Pin Rest
3	1	29378	Spacer
4	1	18760	Clamp Compression, 6”
5	1	23331-00	Assembly, Conveyor Tube
6	4	19577	Bolt, Hex, Flanged, 3/8-16 x 3/4”
7	1	25862	Galvanized Belt Guard (Top Section)
8	2	19126	Nut, Hex, Flanged, 1/4-20
9	2	19560	Bolt, Hex, 1/4-20 x 3/4”
10	12	18679	Clamp, Cushioned (1/2”)
11	2	18363	Assembly, Hydraulic SS Tube, 6” Conveyor
12	1	25489	Belt Guard, Galvanized
13	4	32319	Hose Hydraulic Motor to Steel Line, 1/2”
14	4	19581	Bolt, Hex, Flanged, 5/16-18 x 1”
15	2	19237	Pin, Spring
16	2	19070	Pin, 1/2” x 1-1/4”
17	1	23673-00	Assembly, Body
18	1	19744	Spring, Compression
19	5	19318	Nut, Hex, Flanged, 5/16-18
20	1	23662-00	Assembly, Rod
21	1	19748	Pin, Hitch, 1/2” x 4” Effective Length

14.8 242RT DISCHARGE HOOD



1	1	21258-00	Bearing
2	4	19564	Nut, Hex, Flanged, 3/8-16
3	2	27040-00	Housing, Roller Bearing
4	2	36217-00	Weldment, Belt Tightener Plate
5	1	23339-00	Weldment, Discharge Hood
6	1	36211-00	Weldment, Discharge Transition
7	8	19318	Nut, Hex, Flanged, 5/16-18
8	8	19772	Screw, Hex, Cap, Flanged, 5/16”-18 x 1/2”
9	2	36217-00	Weldment, Belt Tightener Plate
10	1	19769	Hydraulic Motor, 2.8 Cubic Inches
11	4	19695	Bolt, Carriage, 3/8”-16 x 1-1/4”
12	2	19355	Screw, Hex, Cap, 1/2”-13 x 1-1/2
13	2	19249	Coupler, Lovejoy
14	1	19291	Red Coupling Spider
15	1	36200-01	Assembly, Drive Roller
16	1	21258-00C	Collar, Bearing
17	4	19577	Bolt, Hex, Flanged, 3/8-16 x 3/4”
18	4	19595	Nut, Hex, Flanged, 1/2-13
19	2	17999	Adapter, Hydraulic, 45 Deg 7/8-14 SAE O-Ring Boss to 3/4”-16 SAE 37 Deg
20	2	18960	Bolt, Hex, Steel, Mild, Full Thread, 1/2-13 x 6.5
21	8	19772	Screw, Hex, Cap, Flanged, 5/16”-18 x 1/2”

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